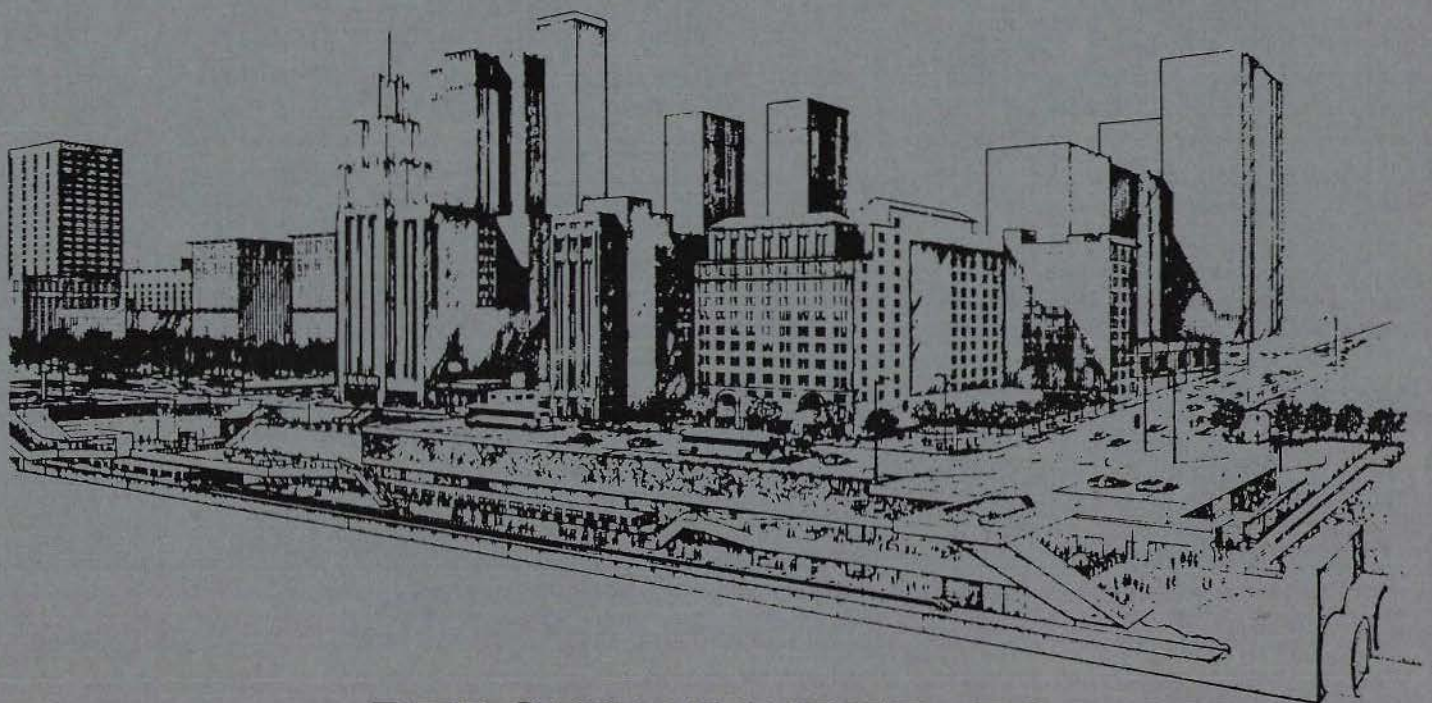


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• M46
R46
no. 58



LOS ANGELES **METRO RED LINE** PROJECT

MONTHLY CONTRACT PERFORMANCE REPORT



REPORT NUMBER 58
APRIL 1989

PDCCD

A Joint Venture of The Ralph M. Parsons Co., Dillingham Construction N. A. Inc., and De Leuw, Cather & Co.,

**MONTHLY CONTRACT
PERFORMANCE REPORT**

for the

LOS ANGELES METRO RED LINE PROJECT

APRIL 1989

presented to

Southern California Rapid Transit District

CONTRACT NO. 3369

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Month APRIL Year 1989

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no. 58



LOS ANGELES METRO RED LINE

PDCD

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PERIOD APRIL 1989

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SECTION I

**CONSTRUCTION MANAGER'S
SUMMARY STATEMENT**



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I. CONSTRUCTION MANAGER'S SUMMARY STATEMENT

MAJOR CM ACTIVITIES

This Contract Performance Report (CPR) for the month of April 1989 is the tenth CPR in the Fifth Annual Work Plan (5th AWP) and covers the period April 1 through April 28, 1989. The following is a summary, by functional organization, of major CM activities during this period:

CONSTRUCTION OPERATIONS: Continued construction management (CM) services for 15 Facility Contracts and 11 Systems Contracts, monitoring of utilities relocations, and performance of submittal reviews. Continued conducting QC inspections of work for compliance to plans and specifications. Monitored contractor progress to approved project schedules. Assisted contractors in coordination with local public agencies in areas of community impact, permits and traffic access. Continued to conduct safety inspections of all contractor activities. Responded to contractor document clarification requests as appropriate.

Environmental Activities: Completed asbestos abatement inspection and clearance work for REA Building in Union Station, A135. Prepared asbestos abatement specifications and monitored and inspected asbestos abatement work for Roosevelt Building, A165. Monitored and inspected asbestos abatement by others at the Equitable Building, A145. Continued monitoring of ground water and construction water discharges at A141, A144, A145, A146, A165, A171 and A175. Continued monitoring Discharge Monitoring Stations at the Ballona Creek and Los Angeles River. Reviewed Contractor's submittals for waste water treatment at A146, and ground water dewatering at A130 and A135. Prepared and submitted February Discharge Monitoring Report (DMR) to the California Regional Water Quality Board (CRWQCB). Coordinated a site visit by CRWQCB at Project Sites A141, A144, A171 and A175. Prepared and submitted the February LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD). Monitored removal, relocation and disposal of contaminated soil at A130, A145 and A146. Properly abandoned 4 previous underground storage tanks at A165. Coordinated request for an exemption from South Coast Air Quality Management District's (SCAQMD) Rule 1166 for excavation of soil contaminated with diesel and fuel oil. Monitored Contractor's performance related to noise criteria at A145.

Utilities and Traffic Activities: Continued coordination of traffic control plans and street closures with city agencies for six contracts. Continued coordination of MOS-1 inspections with LADOT. Obtained County of L.A. Encroachment permit for geotechnical instrumentation installation west of Hollywood Freeway at Hill St. overcrossing (A141). Processed a total of 25 Traffic and Utilities related submittals. Processed one DWP-P Master Agreement invoice.



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Surveying Activities: Continued checking contractor's control points and layout (MOS-1). Continued performing as-built cross sections of AL Tunnel invert pour (A171). Continued monitoring instrumentation, building and ground settlement points on seven contracts. Continued location survey at main shop building and yards contracts. Checked slabs poured at A141 and A175 excavations. Continued performing as-built cross section of AR Tunnel invert pour (A171). Prepared cross-section drawings of AL Tunnel (A171). Began checking arch form alignment AL Tunnel (A171). Performed tunnel alignment check AR Tunnel (A141). Performed tunnel alignment check AL Tunnel (A146).

PROJECT CONTROLS: Processed 31 Change Requests as follows: 6 for A112; 2 for A130; 1 for A135; 3 for A141; 3 for A144; 7 for A145/A145A; 2 for A146; 3 for A165; 2 for A610/A115; 1 for A710 and 1 for A750. Processed 11 Change Notices as follows: 1 for A130; 2 for A135; 1 for A141; 1 for A145/A145A; 3 for A165 and 3 for A175. Processed 70 Change Orders as follows: 12 for A112; 3 for A121; 1 for A135; 10 for A141; 6 for A145/A145A; 6 for A146; 6 for A165; 2 for A171; 3 for A175; 9 for A610/A115; 1 for A616; 3 for A620; 1 for A732; 1 for A740; 2 for A745; 3 for A750 and 1 for A751. Processed 27 executed Change Orders through TRACS as follows: 7 for A130; 3 for A135; 3 for A145/A145A; 2 for A165; 1 for A175 and 11 for A610/A115. Processed 9 Potential Claims as follows: 1 for A112; 1 for A145/A145A; 5 for A165 and 2 for A610/A115. Processed 25 Change - Technical Evaluations as follows: 2 for A112; 3 for A130; 2 for A135; 3 for A141; 1 for A144; 1 for A145/A145A; 1 for A146; 6 for A165; 4 for A610/A115 and 1 for A710. Processed 5 Force Account Change Packages as follows: 3 for A141; 1 for A146 and 1 for A165. Processed 19 Monthly Payment Estimates. Completed close-out reconciliations on 3 Force Account Change Orders as follows: 1 for A165 and 2 for A175. Continued testing PC TRACS for potential use on the project. Completed input to RTD Project Schedule for Revision 7 and published the schedule revision. Reviewed Contractor Monthly Progress Reports. Prepared Contractor progress inputs to RTD Monthly Status Report. Completed Project Schedule Evaluation Analysis.

Cost Estimates for Changes and Proposals: A112-CR-068: Completed estimate for second floor lighting system conduit change. A130-VE-003: Reviewed contractor value engineering proposal and prepared preliminary estimate for temporary decking. A130-CR-026: Completed estimate for communications duct bank Metro Red Line, LAFD and Pac Bell. A130-CR-029: Completed estimate for substitution of PVC conduit for GRS in communications duct bank and attended negotiations. A135-CR-004: Continued material takeoffs, estimates and review of subcontractor proposals for changes at LAUPT Baggage Handling Facility; Major items included closure walls, steel windows glass and glazing, and tile work. A135-CR-020: Prepared estimate for credit, deletions to work resulting from electrical duct bank concrete obstructions. A135-CR-036: Prepared an analysis of estimate vs. contractor proposal for trackwork relocation change. A135-CR-047: Prepared estimate for hydraulic elevator lines. A145: Reviewed wage rates, equipment rates and compared special equipment rates for Force Accounts Work. A146:



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Completed preparation of tunnel equipment rates for Force Account Work. Additional equipment rates were reviewed. A165-CR-010: Reviewed Contractor's revised proposals for miscellaneous changes and attended negotiations. A165-CR-034: Reviewed estimate for Home Savings underpinning to support Change Order negotiations. A165-CR-049: Reviewed estimate for East Bulkhead to support Change Order negotiations. A175: Reviewed Contractor's proposals for miscellaneous changes. A620-CR-018: Prepared estimate for deletion of ACTV Coaxial Cable.

CONTRACTS/PROCUREMENT: Issued Request for Quotations covering 8 Personal Computers and associated software. Completed preparation of a Request for Proposal package for recompeting the Laboratory and Field Testing Services Subcontract for AWP-6. Received District approval and issued Amendments to provide additional AWP-5 funding for one Associate Subcontract and the Laboratory Testing Services Subcontract.

ENGINEERING SERVICES: Coordinated the collection of coring test samples at A141 to evaluate claim of excessive ground hardness. Updated A141, A146 and A175 construction geology data for inclusion in the B330 Geotechnical Design Summary Report by MRTC. Coordinated with MRTC the relocation of A141 cross passage instruments. Participated in the review of A141 Contractor's alternative procedures for monitoring tunnel liner distortions. Coordinated with A141 Contractor to change Civic Center Station load cell (but not strain gauge) readings from daily to weekly. Completed first draft of A141 Civic Center geologic mapping for full station length. Began detailed geologic mapping in north end of Contract A145 and inspected first additional strain gauges installed on struts as part of the A141 Design Criteria Verification Study Plan Task B. Began A141 Design Criteria Verification Study Plan task C, the review of state and nationwide excavation support loadings. Coordinated with the FLSC Fire Chiefs for Contract A171 fire protection piping and valves in tunnels and cross passages. Responded to 84 requests for information or documentation clarification from various contractors. Processed 29 field inquiries with MRTC to obtain clarification of design requirements.

During this period 277 Contractor submittals were processed as follows:

For Contract A112	- Approved - 4; Approved-as-Noted - 11; Rejected - 4.	
For Contract A130	- Approved - 18; Approved-as-Noted - 3; Rejected - 2;	For Record Only - 2.
For Contract A135	- Approved - 10; Approved-as-Noted - 8;	For Record Only - 1.
For Contract A135BH	- Approved - 4; Approved-as-Noted - 4; Rejected - 1;	For Record Only - 1.
For Contract A141	- Approved - 5; Approved-as-Noted - 8;	For Record Only - 2.
For Contract A145	- Approved - 5; Approved-as-Noted - 6; Rejected - 2;	For Record Only - 1.
For Contract A146	- Approved - 6; Approved-as-Noted - 3; Rejected - 1.	



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For Contract A165	- Approved - 33; Approved-as-Noted - 17; Rejected - 7.	
For Contract A171	- Approved - 5; Approved-as-Noted - 9; Rejected - 5;	For Record Only - 2.
For Contract A175	- Approved - 12; Approved-as-Noted - 9; Rejected - 1.	
For Contract A610/A115	- Approved - 1; Approved-as-Noted - 2.	
For Contract A612	- Approved - 1.	
For Contract A615	- Approved - 2; Approved-as-Noted - 1.	
For Contract A616	- Approved - 7.	
For Contract A620	- Approved - 11; Approved-as-Noted - 12.	
For Contract A630	- Approved - 1; Approved-as-Noted - 1; Rejected - 2.	
For Contract A640	- Approved-as-Noted - 5;	For Record Only - 1.
For Contract A710	- Approved - 2; Approved-as-Noted - 3.	
For Contract A740	- Approved - 6; Approved-as-Noted - 1.	
For Contract A745	- Approved - 2; Approved-as-Noted - 1.	
For Contract A750	- Approved-as-Noted - 1.	
For Contract A795	- Approved-as-Noted - 1; Rejected - 1.	
TOTAL	135	106
		26
		10 = 277

SAFETY/SECURITY: Performed daily site safety, health and security surveillances on a two shift basis and prepared written reports for 10 construction projects. Coordinated activities of the Systemwide Security Guard Service and the Systemwide Clean-up Service Subcontractors. Continued to update the Emergency Response Plan.

COMMUNITY RELATIONS - Coordinated community notifications for A141, A145, A146, A165 and A175 and LAPD traffic control assistance for A141. Coordinated traffic mitigation for tenants along Hill St. affected by A141 and A145 traffic access plans, and for tenants in the 7th and Flower area affected by A146 and A165. Provided assistance to A141, A145, A146 and A165 for problems caused by street closures and lane restrictions, blocked access, noise and accidents. Provided assistance in coordinating site visits and responding to media requests. Processed 44 inquiries/complaints.

QUALITY ASSURANCE/QUALITY CONTROL - Conducted audits at A745 subcontractor, Aerovent Corporation; A740 subcontractors, Famco and Reliance Electric; and A640 subcontractors, Cohu Electronics and Acromedia Corporation. Witnessed elastomeric compound physical properties tests for Contract A171 at Master Processing Plant Laboratory. Reviewed testing services subcontractor's physical laboratory documentation procedures and continued to monitor subcontract costs and performance. Continued Quality Control inspection and surveillance of HDPE installation and test, reinforcing steel placement, concrete placement and field welding at various



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station sites. Completed final draft of procedure for preparation and control of as-built drawings. Prepared draft of construction contract close-out procedure. Conducted training sessions for ACI Concrete Technician 1 Certification tests. Conducted follow up shop fabrication inspections at Paramount Metals, Eckman Steel, and ORECOR and site welding inspection at A135, A145 and A165. Continued to review subcontractor shop fabrication submittals for welding procedures and welder certification conformance to AWS D1.1.

EQUAL OPPORTUNITY - Monitored Equal Opportunity reporting requirements for 24 contracts. Conducted project site visits/employee interviews at 10 construction sites. Processed penalty assessments for the late submittal of the Monthly Employment Utilization Reports for 8 Contracts.

MANPOWER PERFORMANCE

The manpower performance for April is measured against the approved planned staffing for the 5th AWP. During April, the actual staff level was 205 vs. the planned staff level of 191. Therefore, the actual staff count for April was 14 over the planned staffing level. The staff breakdown by company was 133 for the Joint Venture firms and 72 for the Associate Subcontractors. The increased staff was required for the processing of excessive field submittals and correspondence and for multishift inspection of construction work at various jobsites.

The April period had 160 available workhours/person. The plan provided for expenditure of 30,160 hours, including "as-required" manhours which would have generated a projected equivalent head count of 188.5 personnel at 160 hours/person. Actual hours expended were 31,013 which translates into a 193.831 equivalent head count at 160 hours/person including temporary personnel, resulting in the equivalent of 5.331 personnel over the plan.

Cumulative total hours incurred through April were 303,284 against a plan of 293,968 resulting in an over plan variance of 9,316 hours.

EQUAL OPPORTUNITY (EO) PERFORMANCE

EO performance for PDCD in April measured on a cost accrual basis under four categories - DBE, WBE and Minority and Women Affirmative Action was as follows:

- o Cumulative DBE participation for the Fifth Annual Work Plan through the month, measured against a total cost basis was 18.4%, 1.4% over the goal of 17%.
- o Cumulative WBE participation for the Fifth Annual Work Plan through the month, measured against a total cost basis was 4.6%, 1.6% over the goal of 3%.



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- o Minority and Women Affirmative Action performance for the month exceeded the established goals of 17% and 8% by 25% and 0.8% respectively.

SCHEDULE PERFORMANCE

- o **Contractor Submittals** - During this period, 240 submittals were received per contract number as follows: A112 (16), A130 (27), A135 (13), A135BH (22), A141 (19), A145 (14), A146 (4), A165 (69), A171 (11), A175 (14), A610/A115 (4), A612 (1), A615 (0), A616 (0), A620 (8), A630 (4), A640 (5), A710 (4), A732 (0), A740 (2); A745 (2); A750 (0) and A795 (1); of the 240 received this period plus the 243 carryover from March, 277 packages were processed and returned to the contractors; the balance of 206 remain in review.
- o **Constructibility Reviews** - Completed review for A116/60%, Yard Site Fencing, and started review of A117/100%, Yard Site Lighting.
- o **Training Programs** - During April, the following training program was underway: SAFETY TRAINING FOR UNDERGROUND CONSTRUCTION - Training in safety conduct during underground construction covering use of self-rescuers, fire extinguishers and other safety equipment.

COST PERFORMANCE - Fifth Annual Work Plan

- o Total incurred costs of \$1,390,761 for CM Direct Services (excluding General Condition Items) for the period were under the plan of \$1,423,575 by \$32,814. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by \$29,033 and labor expenditures (total PDCD and subcontractors) being under the plan by \$3,781.
- o The cumulative costs for Total CM Services (Including General Condition Items) incurred through April were \$14,176,502 against a plan of \$14,345,367 resulting in an under plan of \$168,865.
- o The April CPR indicates an estimate at completion for the 5th AWP (including General Condition Items) of \$17,569,356 versus a plan of \$17,625,378 for an underexpenditure of \$56,022.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of \$46,769 for the period were over the plan of \$44,192 for the period by \$2,577. This report forecasts an estimate at completion (EAC) in the 5th AWP period for GCI's of \$887,364, which is over the plan of \$664,300 by \$223,064.



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GENERAL

- o This "Monthly Contract Performance Report" covers progress relative to PDCD's CM Services contract with the RTD. By RTD direction PDCD no longer produces the "Monthly Construction Performance Report". An equivalent document is now produced by RTD with PDCD input and is entitled the "Monthly Status Report." A copy of the RTD report is distributed to previous recipients of the PDCD report as required.
- o The PDCD fifteenth Joint Venture Executive Board Meeting was held on Friday, April 21, 1989.
- o PDCD submitted its proposal for CM services for the 6th AWP (July 1, 1989 through June 30, 1990).


Melvin L. Polacek
Construction Manager



SECTION II

MANPOWER PERFORMANCE



LOS ANGELES METRO RED LINE

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CONTRACT PERFORMANCE REPORT

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II. MANPOWER PERFORMANCE

This CPR for the month of April compares actual manpower to the planned manpower in the approved 5th AWP. Table II-1, Page 10, illustrates planned staff vs. actual staff and variances for April.

During April, personnel assignments/deletions included the addition of 1 Inspector, 2 Planner/Schedulers, 1 Field Office Engineer and 1 Clerk; and the deletion of 1 Sr. Secretary (field).

For the April period, under the approved 5th AWP, the total planned staffing level (including regular and as-required classifications) is 191. The actual staff (including regular, as-required and temporary classifications) was 205 resulting in 14 over the plan. The current actual staff by company for the April period is as follows:

<u>Company</u>	<u>Staff Level</u>	<u>Company</u>	<u>Staff Level</u>
The Ralph M. Parsons Company	56	Jenkins, Gales & Martinez, Inc.	8
Dillingham Construction, Inc.	54	Kal Krishnan Consulting	2
De Leuw, Cather & Company	23	Martin & Huang International	5
Better Personnel Employment Services	12	North Pacific Construction Management	5
Construction Control Services Corporation	19	Ochoa & Sillas	-
Dames & Moore	1	Randolph & Tate Associates	-
D'Leon Consulting	1	Transmetrics	1
Engineering-Science, Inc.	4	WCI	5
Jacobs Associates	9		

The PDCD Manpower Chart on Page 11 illustrates planned manpower for Construction Services for the Fifth Annual Work Plan period. Actual equivalent manpower is shown for the months of July through April.

The April period had 160 available workhours/person. The plan provided for an expenditure of 30,160 hours, including "as-required" manhours, which would have generated a projected equivalent head count of 188.5 personnel @ 160 hrs/person. Actual hours expended were 31,013 which translates into an equivalent head count of 193.831 @ 160 hrs/person including temporary personnel, resulting in the equivalent of 5.331 personnel over the plan.



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The hours expended for the period were 31,013 versus a plan of 30,160. The 853 manhours variance for the period is calculated as follows:

5.331 equivalent staff over plan @ 160
hours/period in plan =

853 hours

APRIL MANHOUR VARIANCE TO PLAN

853 hours

Cumulative total hours incurred through April were 303,284 against a plan of 293,968 resulting in an over plan variance of 9,316 hours. (Page 22)



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**TABLE II-1 CONSTRUCTION MANAGEMENT STAFF COUNT - APRIL
FIFTH ANNUAL WORK PLAN**

Phase II Construction Services			
Regular/As-required/Temporary			
Position	Planned	Actual	Variance
Construction Manager	1	1	0
Manager, Safety and Security	1	1	0
Safety Inspectors	2	2	0
Manager, Quality Assurance	1	1	0
Quality Assurance Engineer	1	1	0
QA/QC Inspector	1	2	1
Secretarial/Word Processing/Clerical/ Drafting/Courier	15	18	3
Labor Relations	0	0	0
Legal Counsel	0	0	0
Subtotal	22	26	4
Manager, Administration and Staff Support	1	1	0
Manager, Project Administration/Accounting	1	1	0
Senior Accountant	1	1	0
Senior Accounting Clerks	2	2	0
Office Manager	1	1	0
Arts Coordinator	0	0	0
Manager, Community Relations	1	1	0
Community Relations Coordinator	1	1	0
Manager, EO Administration	1	1	0
EO Administrator	1	1	0
(3) Lead Document Control Specialist	1	1	0
Document Control Specialist	1	1	0
Shop Drawing Coordinator	1	1	0
Data Technician	2	5	3
File Clerk	1	2	1
Subtotal	16	20	4
DCM, Project Controls/Engineering Services	1	1	0
Manager, Project Controls	1	1	0
Technical Data Coordinator	1	1	0
Lead Cost Engineer	1	1	0
Cost Engineers	4	4	0
Lead Change Control	1	1	0
Change Control Specialist	1	1	0
Claims Proc. Spec.	1	1	0
Data Technician	1	0	(1)
Lead Planner/Scheduler	1	1	0
Planner/Schedulers	6	8	2
Lead Estimator	1	1	0
Estimators	5	2	(3)
Sr. Data Technician	1	1	0
Computer Support	0	0	0
Subtotal	26	24	(2)
Manager, Contracts/Procurement	1	1	0
Sr. Contract Administrator	2	2	0
Subtotal	3	3	0

Phase II Construction Services			
Regular/As-required/Temporary			
Position	Planned ⁽¹⁾	Actual ⁽²⁾	Variance
Manager, Engineering Services/ Systems Integration	1	1	0
Drafting Technicians	3	1	(2)
Lead Architect	1	1	0
Architect	0	0	0
Lead Electrical Engineer	1	1	0
Electrical Engineer	1	2	1
Lead Engineer, Geotech. Section	1	1	0
Engineers, Geotech. Section	7	5	(2)
Lead Mechanical Engineer	1	1	0
Mechanical Engineer	1	1	0
Lead Structural Engineer	1	1	0
Sr. Struct./Struct. Engineers	2	4	2
Lead Systems Engineer	1	1	0
Systems Engineer	2	1	(1)
Office Engineer	0	1	1
Subtotal	23	22	(1)
DCM, Operations	1	1	0
Manager, General Services	1	1	0
Lead Utilities Engineer	1	1	0
Utility Engineer	1	1	0
Chief of Surveys	1	1	0
Party Chief	1	1	0
Instrument Person	2	2	0
Rod Person	1	2	1
Lead Environmental Engineer	1	1	0
Environmental Specialists	3	4	1
Engineer	0	0	0
Engineering Technician/Coordinator	1	1	0
Resident Engineers	9	10	1
Chief Inspectors	8	9	1
Sr. Inspectors/Inspectors	35	39	4
Office Engineers	11	12	1
Field Secretaries/Clerical	14	13	(1)
Manager, Systemwide Construction	1	1	0
Office Engineer	2	2	0
Resident Engineers	4	4	0
Secretary	2	4	2
Inspector	1	0	(1)
Subtotal	101	110	9
Totals	191	205	14

NOTES:

- (1) The "Planned" staff count is taken directly from the RTD approved PDCD 5th AMP. It is the planned staff count for the reported month and includes both "Regular" and "As-required" classifications.
- (2) The "Actual" staff count is the total actual staff count by Job Position. Included are regular, as-required and temporary staff.
- (3) Effective February 1, 1989, the Document Control Section, previously in the DCM, Project Controls/Engineering Services group, was transferred to the Manager, Administration and Staff Support group.



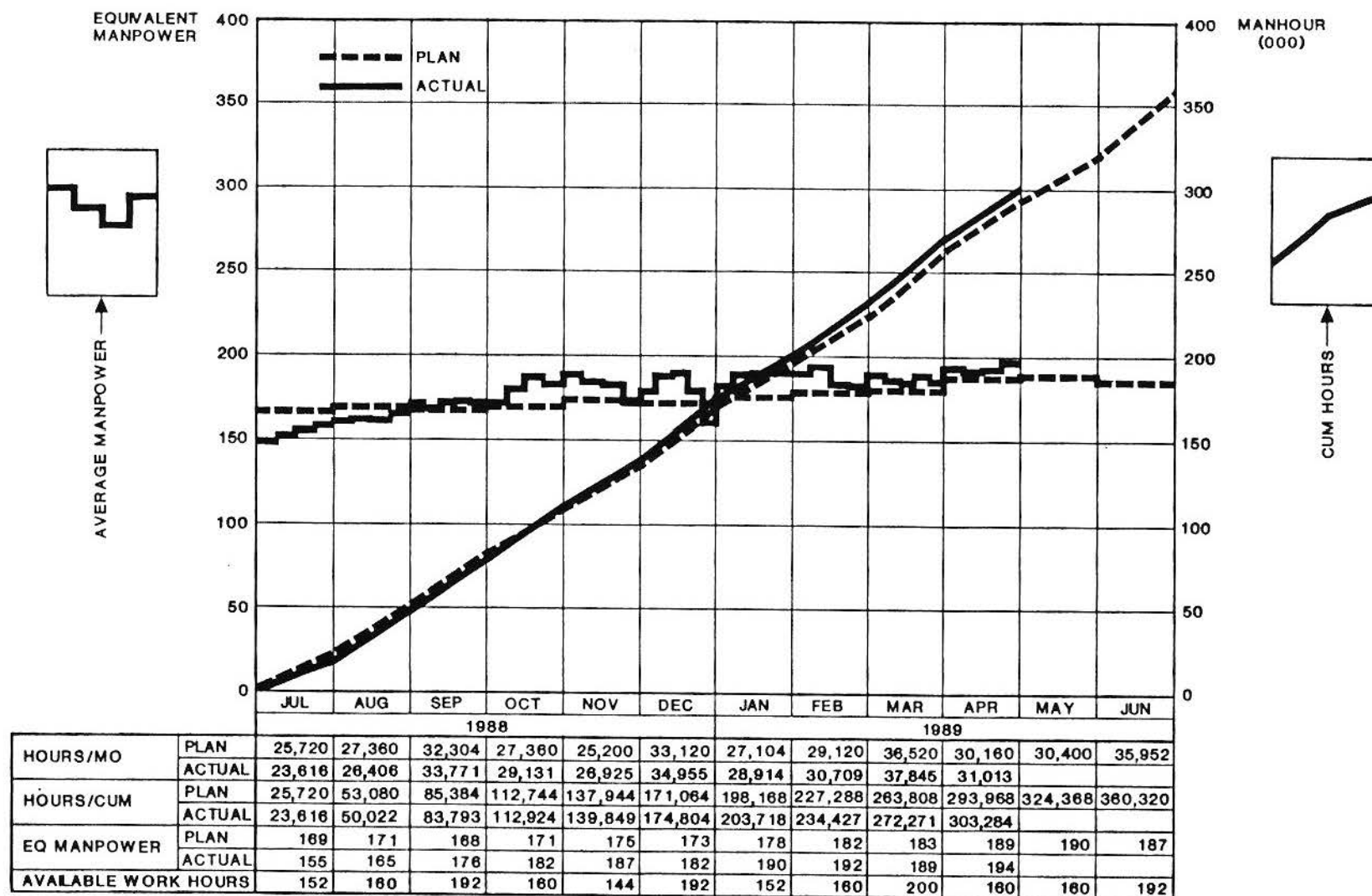
LOS ANGELES METRO RED LINE

PDCD

CONTRACT PERFORMANCE REPORT

FIFTH ANNUAL WORK PLAN

PERIOD APRIL 1989



PDCD MANPOWER

Parsons-Dillingham-De Leuw, Cather



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PDCD

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FIFTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

PAGE 1 OF 3

			1988					1989							
DESCRIPTION (MHS)			JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	TOTALS
MANHOURS BY FUNCTIONAL DEPARTMENT															
A Project Management and Secretarial	Plan	current	2,736	2,880	3,456	2,880	2,592	3,456	2,736	2,880	3,600	2,880	2,880	3,456	36,432
		cumulative	2,736	5,616	9,072	11,952	14,544	18,000	20,736	23,616	27,216	30,096	32,976	36,432	
	Actual	current	3,052	3,037	3,625	3,063	2,619	3,625	3,274	3,414	4,154	3,716			
		cumulative	3,052	6,089	9,714	12,777	15,396	19,021	22,295	25,709	29,863	33,579			
C Facilities Construction Management	Plan	current	9,400	10,160	11,984	10,320	9,536	12,368	10,320	11,120	14,200	11,840	12,160	14,208	137,616
		cumulative	9,400	19,560	31,544	41,864	51,400	63,768	74,088	85,208	99,408	111,248	123,408	137,616	
	Actual	current	9,697	10,632	13,438	12,086	11,439	15,144	12,354	13,150	16,050	12,949			
		cumulative	9,697	20,329	33,767	45,853	57,292	72,436	84,790	97,940	113,990	126,939			
E Systemwide Construction Management	Plan	current	1,304	1,200	1,584	1,200	1,392	1,616	1,456	1,360	1,840	1,520	1,520	1,776	17,768
		cumulative	1,304	2,504	4,088	5,288	6,680	8,296	9,752	11,112	12,952	14,472	15,992	17,768	
	Actual	current	895	1,062	1,378	1,252	1,046	1,375	1,047	1,075	1,463	1,357			
		cumulative	895	1,957	3,335	4,587	5,633	7,008	8,055	9,130	10,593	11,950			
F General Services	Plan	current	1,984	2,080	2,464	1,920	1,744	2,272	1,832	1,920	2,360	1,920	1,920	2,272	24,688
		cumulative	1,984	4,064	6,528	8,448	10,192	12,464	14,296	16,216	18,576	20,496	22,416	24,688	
	Actual	current	2,083	2,408	3,642	2,644	2,554	3,051	2,172	2,155	2,888	2,370			
		cumulative	2,083	4,491	8,133	10,777	13,331	16,382	18,554	20,709	23,597	25,967			
K Project Controls	Plan	current	4,184	4,480	5,264	4,560	4,032	5,456	4,336	4,560	5,840	4,720	4,720	5,616	57,768
		cumulative	4,184	8,664	13,928	18,488	22,520	27,976	32,312	36,872	42,712	47,432	52,152	57,768	
	Actual	current	2,882	3,203	3,498	3,743	3,275	4,353	3,765	4,050	5,306	4,326			
		cumulative	2,882	6,085	9,583	13,326	16,601	20,954	24,719	28,769	34,075	38,401			
L Contracts/Procurement	Plan	current	456	480	576	480	432	576	456	480	600	480	480	576	6,072
		cumulative	456	936	1,512	1,992	2,424	3,000	3,456	3,936	4,536	5,016	5,496	6,072	
	Actual	current	445	471	509	407	388	447	385	422	447	354			
		cumulative	445	916	1,425	1,832	2,220	2,667	3,052	3,474	3,921	4,275			
M Engineering Services/ Systems Integration	Plan	current	2,976	2,960	3,336	2,960	2,672	3,536	3,128	3,600	4,280	3,520	3,520	3,968	40,656
		cumulative	2,976	5,936	9,472	12,432	15,104	18,640	21,768	25,368	29,648	33,168	36,688	40,656	
	Actual	current	2,440	3,048	4,247	3,284	3,063	3,762	3,329	3,847	4,164	3,194			
		cumulative	2,440	5,488	9,735	13,019	16,082	19,844	23,173	27,020	31,184	34,378			



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD APRIL 1989

FIFTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

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			1988						1989						TOTALS
DESCRIPTION (MHS)			JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	
M Community Relations	Plan	current	304	320	384	320	288	384	304	320	400	320	320	384	4,048
		cumulative	304	624	1,008	1,328	1,616	2,000	2,304	2,624	3,024	3,344	3,664	4,048	
	Actual	current	293	290	361	310	249	292	248	204	375	304			
		cumulative	293	583	944	1,254	1,503	1,795	2,043	2,247	2,622	2,926			
P Safety and Security	Plan	current	456	480	576	480	432	576	456	480	600	480	480	576	6,072
		cumulative	456	936	1,512	1,992	2,424	3,000	3,456	3,936	4,536	5,016	5,496	6,072	
	Actual	current	272	320	352	344	416	512	424	464	544	424			
		cumulative	272	592	944	1,288	1,704	2,216	2,640	3,104	3,648	4,072			
Q Quality Assurance	Plan	current	304	480	384	320	208	464	224	400	320	240	240	464	4,048
		cumulative	304	784	1,168	1,488	1,696	2,160	2,384	2,784	3,104	3,344	3,584	4,048	
	Actual	current	240	263	441	406	352	481	406	411	681	552			
		cumulative	240	503	944	1,350	1,702	2,183	2,589	3,000	3,681	4,233			
R Project Administration	Plan	current	912	960	1,152	960	864	1,152	912	960	1,200	960	960	1,312	12,304
		cumulative	912	1,872	3,024	3,984	4,848	6,000	6,912	7,872	9,072	10,032	10,992	12,304	
	Actual	current	752	798	1,327	905	742	1,021	865	910	1,023	870			
		cumulative	752	1,550	2,877	3,782	4,524	5,545	6,410	7,320	8,343	9,213			
S EO Administration	Plan	current	304	320	384	320	288	384	304	320	400	320	320	384	4,048
		cumulative	304	624	1,008	1,328	1,616	2,000	2,304	2,624	3,024	3,344	3,664	4,048	
	Actual	current	152	152	152	192	272	360	261	266	387	262			
		cumulative	152	304	456	648	920	1,280	1,541	1,807	2,194	2,456			
T Labor Relations	Plan	current	0	0	0	0	0	0	0	0	160	0	160	0	320
		cumulative	0	0	0	0	0	0	0	0	160	160	320	320	
	Actual	current	0	0	9	9	0	4	0	0	4	8			
		cumulative	0	0	9	18	18	22	22	22	26	34			
U Legal Counsel	Plan	current	0	0	0	0	0	160	0	160	0	160	0	160	640
		cumulative	0	0	0	0	0	160	160	320	320	480	480	640	
	Actual	current	0	0	0	0	0	5	0	0	0	0			
		cumulative	0	0	0	0	0	5	5	5	5	5			
Subtotal (HOURS)	Plan	current	25,320	26,800	31,744	26,720	24,480	32,400	26,464	28,560	35,800	29,360	29,680	35,152	352,480
		cumulative	25,320	52,120	83,864	110,584	135,064	167,464	193,928	222,488	258,288	287,648	317,328	352,480	
	Actual	current	23,203	25,684	32,979	28,645	26,415	34,432	28,530	30,368	37,486	30,686			
		cumulative	23,203	48,887	81,866	110,511	136,926	171,358	199,888	230,256	267,742	298,428			298,428



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CONTRACT PERFORMANCE REPORT

PERIOD APRIL 1989

FIFTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

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			1988												1989												TOTALS
DESCRIPTION (WRS)			JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE													
Other Direct Labor																											
R. H. Parsons																											
K Project Controls	Plan	current	0	0	0	00	00	00	0	00	0	00	0	00	00												
		cumulative	0	0	0	00	160	240	240	320	320	400	400	400	400												
	Actual	current	0	502	0	65	02	26	68	44	52	32															
L Procurement	Plan	current	0	0	0	0	0	0	0	0	0	0	0	0	0												
		cumulative	0	0	0	0	0	0	0	0	0	0	0	0	0												
	Actual	current	0	0	0	0	2	0	0	0	0	(1)															
M Engineering Services/ Systems Integration	Plan	current	160	320	320	320	320	320	320	320	320	320	320	320	320												
		cumulative	160	480	800	1,120	1,444	1,764	2,080	2,240	2,400	2,560	2,720	2,880	2,880												
	Actual	current	341	(189)	507	243	511	418	200	140	121	179															
N Quality Assurance	Plan	current	0	0	0	0	00	00	00	00	00	00	00	00	00												
		cumulative	0	0	0	0	00	160	240	320	400	480	560	640	640												
	Actual	current	0	0	0	0	0	0	0	0	0	0															
O Administration	Plan	current	0	0	0	0	0	0	0	0	0	0	0	0	0												
		cumulative	0	0	0	0	0	0	0	0	0	0	0	0	0												
	Actual	current	0	83	00	(96)	61	73	52	96	148	90															
Billingham Construction																											
K Project Controls	Plan	current	0	0	0	0	0	0	0	0	160	160	160	160	160												
		cumulative	0	0	0	0	0	0	0	0	160	320	480	640	640												
	Actual	current	0	0	0	0	0	0	0	0	0	0	0	0	0												
M Engineering Services/ Systems Integration	Plan	current	0	0	0	0	0	0	0	0	0	0	0	0	0												
		cumulative	0	0	0	0	0	0	0	0	0	0	0	0	0												
	Actual	current	72	152	148	272	(160)	4	0	0	0	0	0	0	0												
DeLeuw, Cather																											
F General Services	Plan	current	80	80	80	80	80	80	80	80	80	80	80	80	80												
		cumulative	80	160	240	320	400	480	560	640	720	800	880	960	960												
	Actual	current	0	0	0	0	0	0	0	0	0	0	0	0	0												
M Engineering Services/ Systems Integration	Plan	current	160	160	160	160	160	160	160	160	160	160	160	160	160												
		cumulative	160	320	480	640	800	960	1,120	1,280	1,520	1,760	2,000	2,240	2,240												
	Actual	current	0	94	49	2	14	2	64	53	38	27															
Subtotal			Plan	current	400	560	560	640	720	720	640	560	720	800	720	800	720	800	720	800	720	800	720	800	720	800	720
			Actual	current	413	722	792	486	519	523	384	341	359	327													
				cumulative	413	1,135	1,927	2,413	2,923	3,446	3,830	4,171	4,530	4,857													
TOTAL DIRECT LABOR HOURS			Plan	current	25,720	27,360	32,304	27,360	25,200	33,120	27,104	29,120	34,320	30,160	30,000	29,932	340,320										
			Actual	current	23,616	24,406	33,771	29,131	26,925	34,935	28,914	30,708	37,845	31,013													
I Negative due to correction to prior period accruals.				cumulative	23,616	50,622	83,793	112,924	139,849	174,004	203,718	234,426	272,271	303,284													

SECTION III

EQUAL OPPORTUNITY

PERFORMANCE



LOS ANGELES METRO RED LINE

PDCD

CONTRACT PERFORMANCE REPORT

PERIOD APRIL 1989

III. EQUAL OPPORTUNITY PERFORMANCE

DBE Participation

The monthly DBE participation for the Fifth Annual Work Plan for April, measured on the basis of accrued total cost was 18.9%, 1.9% above the 17% goal. The cumulative percentage for the Fifth Annual Work Plan was 18.4%, 1.4% above the 17% goal (Figure 1).

WBE Participation

The monthly WBE participation for the Fifth Annual Work Plan for April, measured on the basis of accrued total cost was 4.1%, 1.1% above the 3% goal. The cumulative percentage for the Fifth Annual Work Plan was 4.6%, 1.6% above the 3% goal (Figure 2).

Affirmative Action Analysis

The Affirmative Action Analyses for minorities and women, as indicated in Figures 3 and 4, exceeds the established goals of 17% for minorities, and 8% for women by 25% and 0.8% respectively.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

FIFTH ANNUAL WORK PLAN

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PERIOD APRIL 1989

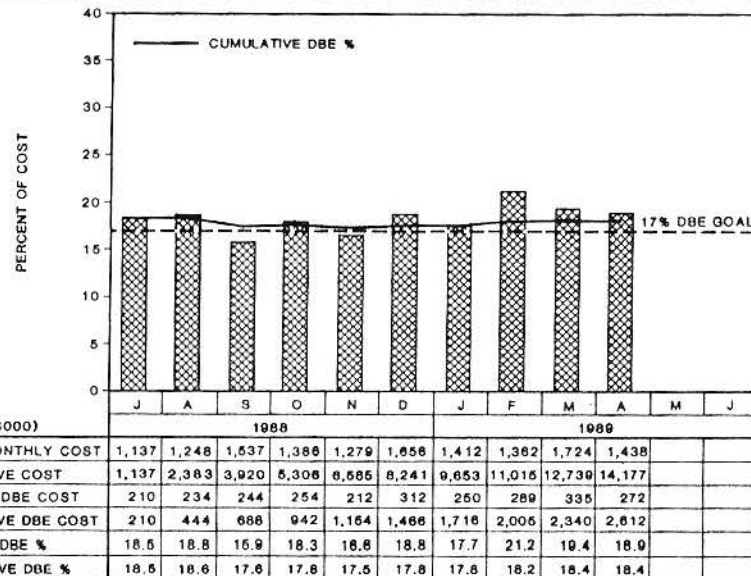


FIGURE 1 - DBE ANALYSIS

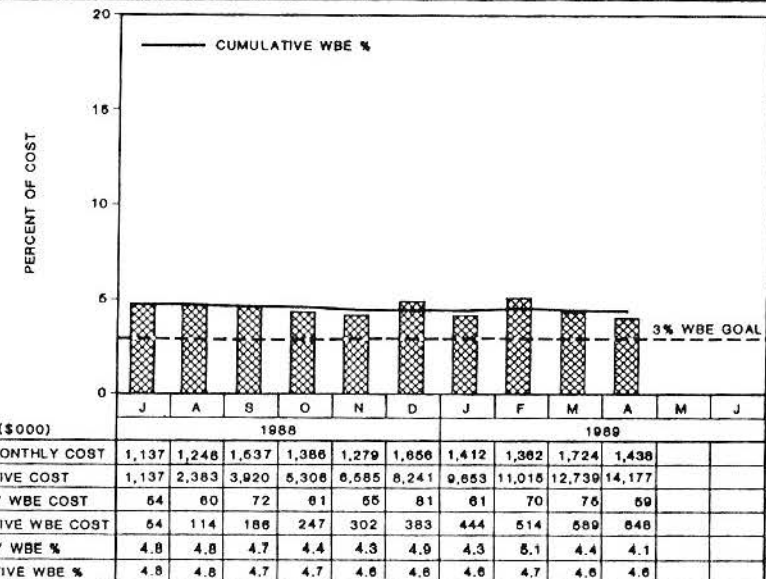


FIGURE 2 - WBE ANALYSIS

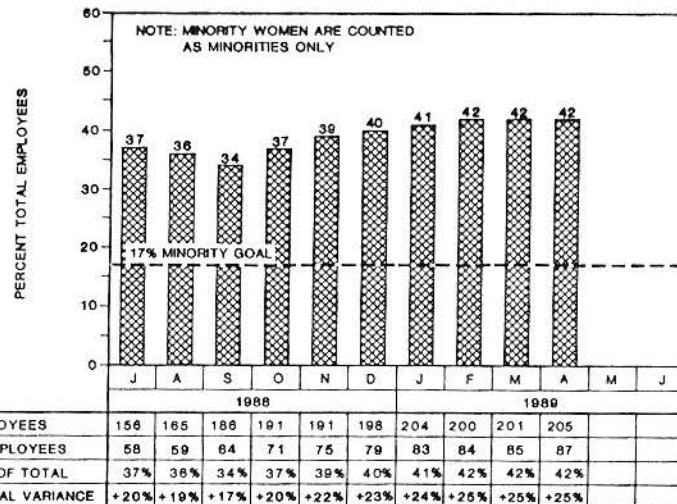


FIGURE 3 - MINORITY AFFIRMATIVE ACTION ANALYSIS

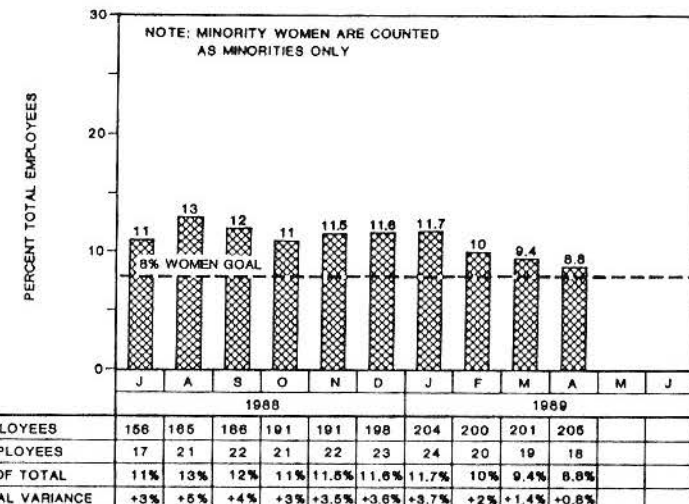


FIGURE 4 - WOMEN AFFIRMATIVE ACTION ANALYSIS

Parsons-Dillingham-De Leuw, Cather

SECTION IV

SCHEDULE PERFORMANCE



LOS ANGELES METRO RED LINE

PDCD

CONTRACT PERFORMANCE REPORT

PERIOD APRIL 1989

IV. SCHEDULE PERFORMANCE

CONTRACTOR SUBMITTALS - During this period, 240 submittals were received from the Construction Contractors and 243 were carried over from March. 277 packages were processed (approved, approved-as-noted, rejected and reviewed for record only) and returned to the Contractors as shown in the following tabulation. The balance (206) are still under review.

<u>Contracts</u>	<u>Carryover From March</u>	<u>No. of Submittals Received in April</u>	<u>Submittals Processed Within 30 Days</u>	<u>Submittals Processed In Over 30 Days</u>	<u>Carryover to May</u>
A112	12	16	11	8	9
A130	23	27	23	2	25
A135	13	13	19	0	7
A135BH	13	22	10	0	25
A141	12	19	15	0	16
A145/A145A	12	14	14	0	12
A146	6	4	10	0	0
A165	44	69	55	2	56
A171	28	11	16	5	18
A175	21	14	21	1	13
A610/A115	3	4	2	1	4
A612	1	1	1	0	1
A615	3	0	3	0	0
A616	8	0	6	1	1
A620	20	8	16	7	5
A630	4	4	2	2	4
A640	3	5	5	1	2
A710	4	4	4	1	3
A732	1	0	0	0	1
A740	6	2	6	1	1
A745	2	2	3	0	1
A750	1	0	1	0	0
A795	3	1	1	1	2
Total	243	240	244	33	206



LOS ANGELES METRO RED LINE

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Construction Package Reviews - Analysis of the activities on the "Design Packages Status Window Report, Current Period", (Page 19), shows the following document review:

- o Constructibility Reviews - Completed constructibility review for A116/60%, Yard Site Security Fencing and Started A117/100%, Yard Site Lighting.

Training Programs

The following training program was underway during the April period:

- A. SAFETY TRAINING FOR UNDERGROUND CONSTRUCTION - Training in safety conduct during underground construction covering use of self-rescuers; fire extinguishers and other safety equipment. One session was held with representatives from SCRTD (6), LACTC (2), MRTC (1) and County Supervisors group (8).



LOS ANGELES METRO RED LINE

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CONTRACT PERFORMANCE REPORT

PERIOD APRIL 1989

DESIGN PACKAGE STATUS WINDOW REPORT - CURRENT PERIOD 4-1-89 TO 4-28-89

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-116	YARD SITE SECURITY FENCING	DWGS	IP60%		04-06-89	04-17-89	04-20-89		

One record listed. One value listed.

Review Codes :	LT60 - Less than 60%	IP60 - In progress 60%	PF85 - Prefinal 85%
	PF90 - Prefinal 90%	FS100 - Final submittal 100%	DC100 - Final design complete 100%
	CAR- Claims Avoidance Review	CE - Check Estimate	

NOTE : Based on 05-01-89, MRTC Design Review Schedule

SECTION V

COST PERFORMANCE

MTA LIBRARY

SECTION V

COST PERFORMANCE

MTA LIBRARY



LOS ANGELES METRO RED LINE

PDCD

CONTRACT PERFORMANCE REPORT

PERIOD APRIL 1989

V. COST PERFORMANCE

FIFTH ANNUAL WORK PLAN

Total incurred costs of \$1,390,761 (Page 25) for CM Direct Services (without General Condition Items) for the period were under the plan of \$1,423,575 by \$32,814. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by \$29,033 and Labor expenditures (total PDCD and subcontractors) being under the plan by \$3,781.

The cumulative costs for Total CM Services (including General Condition Items) incurred through April were \$14,176,502 against a plan of \$14,345,367 resulting in an under plan expenditure of \$168,865 (Page 25).

The April CPR forecasts (Page 25) an estimate at completion of \$17,569,356 versus a plan of \$17,625,378 for an underexpenditure of \$56,022. Extracting the General Condition Items and reporting them separately, the April CPR forecasts a CM Direct Services estimate at completion of \$16,681,992 versus a plan of \$16,961,078 for an under plan expenditure of \$279,086.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of \$46,769 were over the plan of \$44,192 for the period by \$2,577. This report forecasts an estimate at completion (EAC) in the 5th AWP period for GCI's of \$887,364 versus a plan of \$664,300, for a projected overplan expenditure of \$223,064. (Page 24)

LABOR COSTS

The average hourly labor rate, including burdens and fees, experienced for the period was \$41.12/hr. compared to a plan rate of \$42.41/hr., resulted in a difference of \$1.29(-) per hour.

The variances can be summarized into two categories:

STAFFING VARIANCE

5.331 equivalent staff over plan @ 160
hours at \$42.41/hour =

IMPACT ON APRIL COSTS

\$ 36,174



LOS ANGELES METRO RED LINE

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CONTRACT PERFORMANCE REPORT

PERIOD APRIL 1989

RATE VARIANCE

193.831 actual staff equivalent @ 160 hours
@ \$1.2884/hour =

(39,957)

APRIL COST VARIANCE TO PLAN

\$(3,781)

OTHER DIRECT COSTS

Other Direct Costs (ODCs) were under the plan for the period by a net of \$29,033 as follows:

DESCRIPTION	CURRENT PERIOD DOLLARS			CUMULATIVE DOLLARS		
	BUDGET	ACTUAL	VARIANCE	BUDGET	ACTUAL	VARIANCE
(1)Field Office Expenses	60,324	50,674	- 9,650	596,187	523,426	- 72,761
(2)Office Equipment	16,371	2,652	-13,719	149,158	93,103	- 56,055
(3)Travel & Relocation	28,550	35,900	7,350	267,900	126,064	-141,836
(4)Vehicles & Maintenance	5,189	3,812	- 1,377	82,186	43,669	- 38,517
(5)Reproduction	5,980	4,727	- 1,253	62,468	52,003	- 10,465
(6)Telephone & Telex	7,396	4,378	- 3,018	77,260	53,872	- 23,388
(7)Computer Operation Support	3,242	2,086	- 1,156	32,420	19,794	- 12,626
(8)Gross Receipt Tax	7,847	7,000	- 847	76,694	75,408	- 1,286
(9)Field Equipment	9,513	4,150	- 5,363	86,674	47,761	- 38,913
S/T ODC's	144,412	115,379	<u>-29,033</u>	1,430,947	1,035,100	-395,847

NOTES

- (1) Field Office Expenses - underexpenditure due to underrun in equipment maintenance and supplies.
- (2) Office Equipment - underexpenditure due to lower than planned purchases.
- (3) Travel and Relocation - Travel costs higher than normal due to incorrect allocation of actual expenditure. Cost adjustment will be made next period.
- (4) Vehicles & Maintenance - underexpenditure due to lower than planned maintenance costs.
- (5) Reproduction - underexpenditure due to lower than planned reproduction.
- (6) Telephone and Telex - underexpenditure due to lower communications cost.
- (7) Computer Operation Support - underexpenditure due to lower than normal DMCS costs.
- (8) Gross Receipt Tax - varies directly with the actual cumulative rate of expenditure per period.
- (9) Field Equipment - underexpenditure due to lower than planned expenditures.



LOS ANGELES METRO RED LINE

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CONTRACT PERFORMANCE REPORT

PERIOD APRIL 1989

CM COST PERFORMANCE - APRIL 1989 FIFTH ANNUAL WORK PLAN CONSTRUCTION (\$000)

	PLANNED	ACTUAL	VARIANCE	%

PDCD				
LABOR, BURDENS, FEE				
CUMULATIVE THROUGH MARCH	\$ 7134	\$ 7161	\$ 27	0.38%
CURRENT MONTH	797	823	26	3.26%
CUMULATIVE THROUGH APRIL	\$ 7931	\$ 7984	\$ 53	0.67%
TRAVEL AND ODC'S				
CUMULATIVE THROUGH MARCH	\$ 1287	\$ 920	\$ (367)	-28.52%
CURRENT MONTH	144	115	(29)	-20.14%
CUMULATIVE THROUGH APRIL	\$ 1431	\$ 1,035	\$ (396)	-27.67%
SUBCONTRACTORS				
CUMULATIVE THROUGH MARCH	\$ 4,025	\$ 3,969	\$ (56)	-1.39%
CURRENT MONTH	483	453	(30)	-6.21%
CUMULATIVE THROUGH APRIL	\$ 4,508	\$ 4,422	\$ (86)	-1.91%

SUBTOTAL CM DIRECT SERVICES				
CUMULATIVE THROUGH MARCH	\$ 12,446	\$ 12,050	\$ (396)	-3.18%
CURRENT MONTH	1,424	1,391	(33)	-2.32%
CUMULATIVE THROUGH APRIL	\$ 13,870	\$ 13,441	\$ (429)	-3.09%
GENERAL CONDITION ITEMS				
CUMULATIVE THROUGH MARCH	\$ 432	\$ 689	\$ 257	59.49%
CURRENT MONTH	44	47	3	6.82%
CUMULATIVE THROUGH APRIL	\$ 476	\$ 736	\$ 260	54.62%
=====				
TOTAL CM SERVICES				
CUMULATIVE THROUGH MARCH	\$ 12,878	\$ 12,739	\$ (139)	-1.08%
CURRENT MONTH	1,468	1,438	(30)	-2.04%
CUMULATIVE THROUGH APRIL	\$ 14,346	\$ 14,177	\$ (169)	-1.18%
=====				
HOURS				
CUMULATIVE THROUGH MARCH	263,808 hrs	272,271 hrs	8,463 hrs	3.21%
CURRENT MONTH	30,160	31,013	853	2.83%
CUMULATIVE THROUGH APRIL	293,968 hrs	303,284 hrs	9,316 hrs	3.17%
=====				

* OFF BY 1 DUE TO ROUNDING

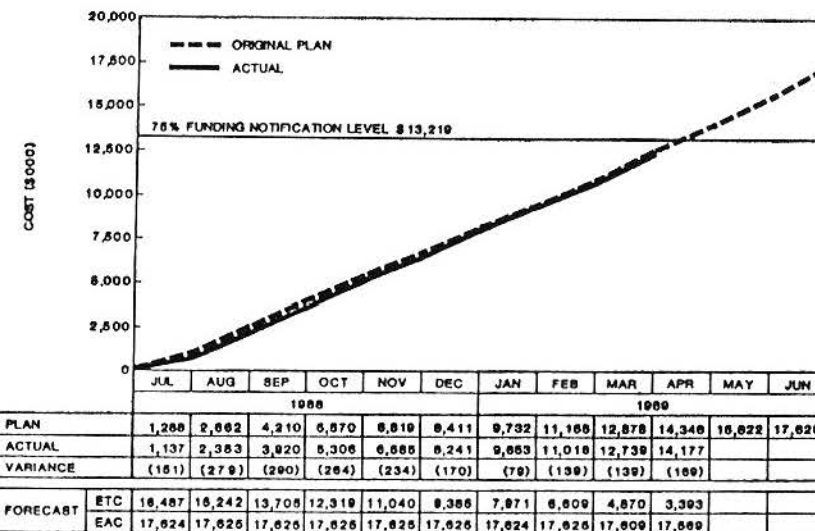
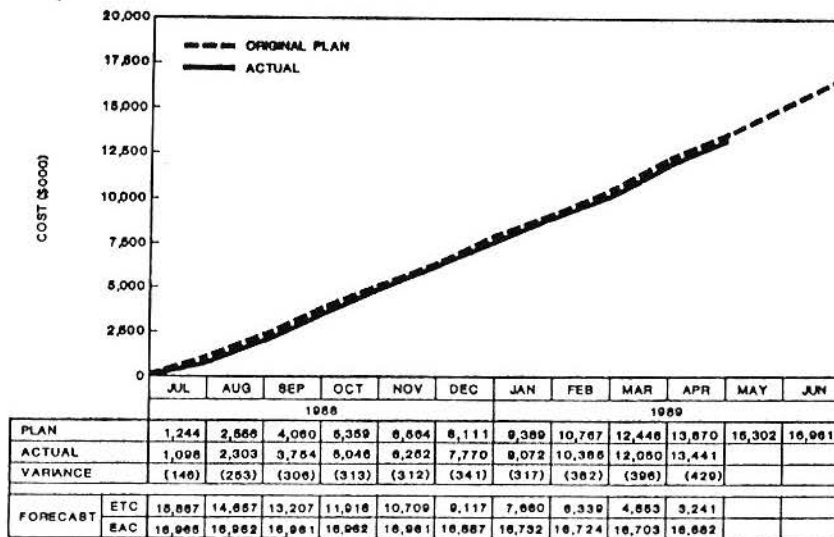
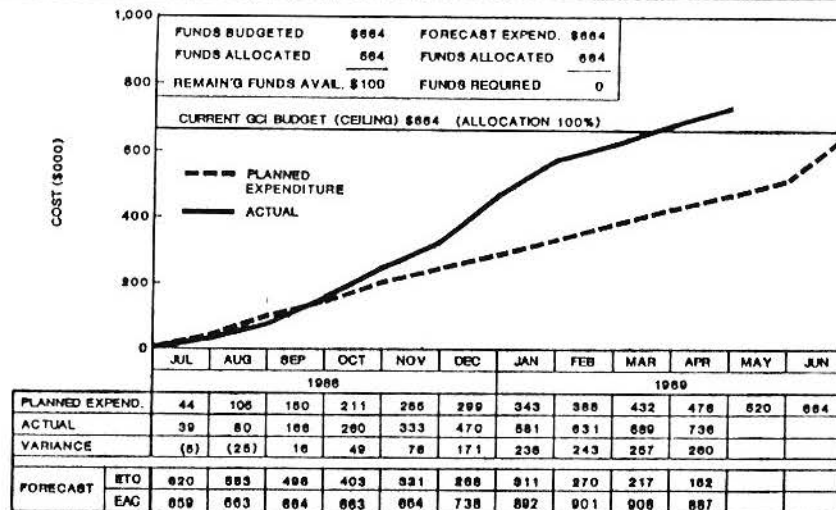


LOS ANGELES METRO RED LINE

PDCD

CONTRACT PERFORMANCE REPORT FIFTH ANNUAL WORK PLAN

PERIOD APRIL 1989





LOS ANGELES METRO RED LINE

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CONTRACT PERFORMANCE REPORT

PERIOD APRIL 1989

**PDCD CM SERVICES - 5TH ANNUAL WORK PLAN
COST REPORT FOR MONTH ENDING APR 28, 1989
REPORT SUMMARIZED BY RESPONSIBILITY
CONSTRUCTION
GENERAL CONDITION ITEMS**

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS			CUMULATIVE DOLLARS			ESTIMATE TO COMPL	AT COMPLETION DOLLARS		
	BUDGET	ACTUAL	VAR.	BUDGET	ACTUAL	VARIANCE		BUDGET	ESTIMATE	VARIANCE
B GUARD SERVICES	7,750	6,009	-1,741	77,500	59,821	-17,679	15,500	93,000	75,321	-17,679
D FIELD OFFICE TRAILERS	0	0	0	34,000	0	-34,000	0	34,000	0	-34,000
E CLEAN-UP OF FIELD SITES	0	1,760	1,760	0	15,013	15,013	10,000	0	25,013	25,013
F WTF EXPENSES	0	0	0	0	24,703	24,703	0	0	24,703	24,703
G SIGNS AND BARRICADES	0	0	0	0	42,317	42,317	0	0	42,317	42,317
X CONSTRUCTION PHOTO	3,525	6,000	2,475	35,250	45,960	10,710	10,050	42,300	56,010	13,710
Y TESTING PROGRAM	32,917	33,000	83	329,170	548,000	218,830	116,000	395,000	664,000	269,000
S/T ALLOCATED	44,192	46,769	2,577	475,920	735,814	259,894	151,550	564,300	887,364	323,064
Z UNALLOCATED	0	0	0	0	0	0	0	100,000	0	-100,000
S/T GEN. COND. ITEMS	44,192	46,769	2,577	475,920	735,814	259,894	151,550	664,300	887,364	223,064



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PDCD CM SERVICES - 5TH ANNUAL WORK PLAN COST REPORT FOR MONTH ENDING APR 28, 1989 REPORT SUMMARIZED BY RESPONSIBILITY CONSTRUCTION

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS			CUMULATIVE DOLLARS			ESTIMATE TO COMPL	AT COMPLETION DOLLARS		
	BUDGET	ACTUAL	VAR.	BUDGET	ACTUAL	VARIANCE		BUDGET	ESTIMATE	VARIANCE
A PROJECT MANAGEMENT	82,933	86,223	3,290	866,648	827,826	-38,822	190,701	1,049,100	1,018,527	-30,573
C FAC. CONSTRUCTION	436,770	481,123	44,353	4,156,382	4,607,048	450,666	1,115,854	5,131,561	5,722,902	591,341
E SYSTEMWIDE CONST	51,287	52,237	950	494,497	489,254	-5,243	145,167	605,480	634,421	28,941
F GENERAL SERVICES	85,389	96,210	10,821	899,195	1,028,045	128,850	216,862	1,084,962	1,244,907	159,945
K PROJECT CONTROLS	219,778	185,088	-34,690	2,108,084	1,613,543	-494,541	447,342	2,581,921	2,060,885	-521,036
L PROCUREMENT	21,331	15,219	-6,112	222,911	190,875	-32,036	47,671	269,840	238,546	-31,294
M ENG. SVCS./SYST. INTEGR.	177,234	177,523	289	1,725,290	1,887,342	162,052	365,681	2,108,035	2,253,023	144,988
N COMMUNITY RELATIONS	12,181	12,003	-178	127,289	113,840	-13,449	27,995	154,087	141,835	-12,252
P SAFETY	22,141	18,629	-3,512	231,371	184,112	-47,259	49,407	280,081	233,519	-46,562
Q QUALITY ASSURANCE	16,322	26,358	10,036	190,049	207,547	17,498	68,556	232,452	276,103	43,651
R PROJECT ADMIN.	33,723	33,793	70	352,407	340,190	-12,217	77,676	436,598	417,866	-18,732
S EQUAL OPPORTUNITY	14,803	11,315	-3,488	154,693	104,729	-49,964	29,825	187,260	134,554	-52,706
T LABOR RELATIONS	0	525	525	10,702	2,230	-8,472	10,702	21,405	12,932	-8,473
U LEGAL	20,000	0	-20,000	60,000	3,887	-56,113	0	80,000	3,887	-76,113
S/T LABOR-BRDN & OH	1,193,892	1,196,246	2,354	11,599,518	11,600,468	950	2,793,439	14,222,782	14,393,907	171,125
1 FIELD OFFICE EXPENSES	60,324	50,674	-9,650	596,187	523,426	-72,761	97,425	718,100	620,851	-97,249
2 OFFICE EQUIPMENT	16,371	2,652	-13,719	149,158	93,103	-56,055	45,990	181,900	139,093	-42,807
3 TRAVEL & RELOCATION	28,550	35,900	7,350	267,900	126,064	-141,836	27,340	325,000	153,404	-171,596
4 VEHICLES & MAINT.	5,189	3,812	-1,377	82,186	43,669	-38,517	9,576	93,600	53,245	-40,355
5 REPRODUCTION	5,980	4,727	-1,253	62,468	52,003	-10,465	14,654	75,600	66,657	-8,943
7 TELEPHONE & TELEX	7,396	4,378	-3,018	77,260	53,872	-23,388	10,000	93,500	63,872	-29,628
8 COMPUTER OPERATION SUPPT.	3,242	2,086	-1,156	32,420	19,794	-12,626	3,936	38,900	23,730	-15,170
9 GROSS RECEIPT TAX	7,847	7,000	-847	76,694	75,408	-1,286	18,272	94,230	93,680	-550
A FIELD EQUIPMENT	9,513	4,150	-5,363	86,674	47,761	-38,913	14,026	105,700	61,787	-43,913
S/T ODC'S	144,412	115,379	-29,033	1,430,947	1,035,100	-395,847	241,219	1,726,530	1,276,319	-450,211
W PDCD FEE	50,000	50,000	0	500,000	500,000	0	95,000	595,000	595,000	0
X S/C FEE	35,271	29,136	-6,135	338,982	305,120	-33,862	111,646	416,766	416,766	0
S/T FEES	85,271	79,136	-6,135	838,982	805,120	-33,862	206,646	1,011,766	1,011,766	0
S/T CM DIRECT SVCS	1,423,575	1,390,761	-32,814	13,869,447	13,440,688	-428,759	3,241,304	16,961,078	16,681,992	-279,086
S/T GEN. COND. ITEMS	44,192	46,769	2,577	475,920	735,814	259,894	151,550	664,300	887,364	223,064
TOTAL CM SERVICES	1,467,767	1,437,530	-30,237	14,345,367	14,176,502	-168,865	3,392,854	17,625,378	17,569,356	-56,022

PERCENT OF BUDGET EXPENDED = 80%

NEGATIVE VARIANCE INDICATES UNDERRUN

SECTION VI
ADDITIONAL ACTIVITIES
PERFORMED IN APRIL



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VI. ADDITIONAL ACTIVITIES PERFORMED IN APRIL

The following activities performed by the CM functional organization are in addition to the activities presented in other sections of this report.

A. ADMINISTRATION AND ACCOUNTING

- (1) Continued to assist the Resident Engineers in the supply of administrative material and the assignment/orientation of new field personnel at the field offices.
- (2) Continued processing of personnel (acquisition and termination).
- (3) Coordinated and held PDCD's JVEB Meeting No. 15 on 4/21/89.

B. Quality Assurance

- (1) Conducted QA audits at A745 subcontractor, Aerovent Corporation; A740 subcontractors, Famco and Reliance Electric; and A640 subcontractors, Cohu Electronics and Acromedia Corporation.
- (2) Witnessed elastomeric compound physical properties tests for Contract A171 at Master Processing Plant Laboratory.
- (3) Reviewed testing services subcontractor's physical laboratory documentation procedures and continued to monitor subcontract costs and performance.
- (4) Continued Quality Control inspection and surveillance of HDPE installation and test, reinforcing steel placement, concrete placement and field welding at various station sites.
- (5) Completed final draft of procedure for preparation and control of as-built drawings.
- (6) Prepared draft of construction contract close-out procedure.
- (7) Conducted training sessions for inspectors for ACI Concrete Technician 1 Certification tests.
- (8) Conducted follow up shop fabrication inspections at Paramount Metals, Eckman Steel, and ORECOR and site welding inspection at A135, A145 and A165.
- (9) Continued to review subcontractor shop fabrication submittals for welding procedures and welder certification conformance to AWS D1.1.

C. Equal Opportunity Administration

- (1) Monitored Equal Opportunity reporting requirements for Contract Nos. A112, A130, A135, A141, A145, A146, A165, A171, A175, A610/A115, A612, A615, A616, A620, A640, A710, A732, A740, A745 and A795.



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- (2) Conducted project site visits/employee interviews at the following sites: A112, A130, A135, A141, A145, A146, A165, A171, A175 and A610/A115.
- (3) Processed penalty assessments for the late submittal of the Monthly Employment Utilization Reports for Contracts A112, A130, A135, A141, A144, A145, A165 and A175.

D. Contracts and Procurement

- (1) Issued Request for Quotations covering 8 Personal Computers and associated software.
- (2) Completed preparation of a Request for Proposal package which will recompetes the Laboratory and Field Testing Services Subcontract for AWP-6.
- (3) Received District approval and issued Amendments to provide additional AWP-5 funding for one Associate Subcontract and the Laboratory Testing Services Subcontract.

E. Community Relations

- (1) Coordinated community notifications for A141, A145, A146, A165 and A175 and LAPD traffic control assistance for A141.
- (2) Coordinated traffic mitigation for tenants along Hill St. affected by A141 and A145 traffic access plans, and for tenants in the 7th/Flower area affected by A165 and A146.
- (3) Provided assistance to A141, A145, A146 and A165 for problems caused by street closures and lane restrictions, blocked access, noise and accidents.
- (4) Provided assistance in coordinating site visits and responding to media requests.
- (5) Provided 44 inquiries/complaints.

F. Safety and Security

- (1) Performed daily construction site safety, health and security surveillances on a two shift basis and prepared written reports for the A112, A130, A135, A141, A145, A146, A165, A171, A175 and A610/A115 construction projects.
- (2) Coordinated activities of the Systemwide Security Guard Service and the Systemwide Clean-up Service subcontractors.



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G. Construction Operations

- (1) Continued construction management (CM) services for Contracts A112, A130, A135, A141, A143, A144, A145/A145A, A146, A165, A167, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745, 4984 (formerly A750), 4986 (formerly A750B) and A795; monitoring of Master Agreement Work and submittal reviews.
- (2) Continued coordination of traffic control plans and street closures with city agencies for A130, A135, A141, A145, A146 and A165.
- (3) Continued coordination of MOS-1 inspections with LADOT.
- (4) Obtained County of L.A. Encroachment permit for geotechnical instrumentation installation west of Hollywood Freeway at Hill St. overcrossing (A141).
- (5) Processed a total of 25 Traffic and Utilities related submittals.
- (6) Processed one DWP-P Master Agreement invoice.
- (7) Completed asbestos abatement inspection and clearance work for REA Building in Union Station, A135.
- (8) Prepared asbestos abatement specifications and monitored and inspected asbestos abatement work for Roosevelt Building, A165.
- (9) Monitored and inspected asbestos abatement by others at the Equitable Building, A145.
- (10) Continued monitoring of ground water and construction water discharges at A141, A144, A145, A146, A165, A171 and A175.
- (11) Continued monitoring Discharge Monitoring Stations at the Ballona Creek and Los Angeles River.
- (12) Reviewed Contractor's submittals for waste water treatment at A146, and groundwater dewatering at A130 and A135.
- (13) Prepared and submitted February Discharge Monitoring Report (DMR) to the California Regional Water Quality Board (CRWQCB).
- (14) Coordinated a site visit by CRWQCB at Project Sites A141, A144, A171 and A175.
- (15) Prepared and submitted the February LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD).
- (16) Monitored removal, relocation and disposal of contaminated soil at A130, A145 and A146.
- (17) Properly abandoned 4 previous underground storage tanks at A165.
- (18) Coordinated request for an exemption from South Coast Air Quality Management District's (SCAQMD) Rule 1166 for excavation of soil contaminated with diesel and fuel oil.
- (19) Monitored Contractor's performance related to noise criteria at A145.
- (20) Continued checking contractor's control points and layout (MOS-1).
- (21) Continued performing as-built cross sections of AL Tunnel invert pour (A171).



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- (22) Continued monitoring instrumentation, building and ground settlement points on A135, A141, A145, A146, A165, A171 and A175.
- (23) Continued location survey at main shop building and yards contracts.
- (24) Checked slabs poured at A141 and A175 excavations.
- (25) Continued performing as-built cross section of AR Tunnel invert pour (A171).
- (26) Prepared cross-section drawings of AL Tunnel (A171).
- (27) Began checking arch form alignment AL Tunnel (A171).
- (28) Performed tunnel alignment check AR Tunnel (A141).
- (29) Performed tunnel alignment check AL Tunnel (A146).

H. Engineering Services

- (1) Coordinated the collection of coring test samples at A141 to evaluate claim of excessive ground hardness.
- (2) Updated A141, A146 and A175 construction geology data for inclusion in the B330 Geotechnical Design Summary Report by MRTC.
- (3) Coordinated with MRTC the relocation of A141 cross passage instruments.
- (4) Participated in the review of A141 Contractor's alternative procedures for monitoring tunnel liner distortions.
- (5) Coordinated with A141 Contractor to change Civic Center Station load cell (but not strain gauge) readings from daily to weekly.
- (6) Completed first draft of A141 Civic Center geologic mapping for full station length.
- (7) Began detailed geologic mapping in north end of Contract A145 and inspected first additional strain gauges installed on struts as part of the A141 Design Criteria Verification Study Plan Task B.
- (8) Began A141 Design Criteria Verification Study Plan Task C, the review of state and nationwide excavation support loadings.
- (9) Coordinated with the FLSC Fire Chiefs for Contract A171 fire protection piping and valves in tunnels and cross passages.
- (10) Responded to 84 requests for information or documentation clarification from various contractors.
- (11) Processed 29 field inquiries with MRTC to obtain clarification of design requirements.
- (12) For Contract A112 - Approved 4 Contractor submittals for refrigerant piping, wheel boring rebar list, samples of glass, and tackboards.
Approved-as-Noted 11 Contractor submittals for fire protection, sump pump specifications, traction power distribution Stinger/O&M Manual, cable and wires, receptacles, switches and plates, and HVAC operation and maintenance manuals.



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Rejected 4 Contractor submittals for plumbing products, test data/operation and maintenance manuals, and operation and maintenance manuals.

- (13) For Contract A130 - Approved 18 Contractor submittals for soldier pile and lagging layout and tieback details, responses and hardware samples, pipe support and service walkway form drawing, storm drainage, ground rod data sheet, lift drawing - two-cell box, Gundle quality control assurance for HDPE storm drainage system, transit mix designs ranging from 2500 to 5000 psi at 0.45 w/c ratio, rebar mill certificates for slurry wall panels, mill test report for box invert, and certifications of persons trained to install HDPE.

Approved-as-Noted 3 Contractor submittals for concrete mix designs with .45 water/cement ratio, 1 and 2/bent 4 transfer post tensioning details and anchorage layout, and cathodic protection materials.

Rejected 2 Contractor submittals for traffic control plan - chemical and compaction grouting area, and cast-in-place underpinning piles/lift drawings.

Reviewed for Record Only 2 Contractor submittals for Inclinator #I-3 installation notes, boring log and soil samples, and 2000 psi grout design to be used in conjunction with concrete masonry unit block.

- (14) For Contract A135 - Approved 10 Contractor submittals for concrete mix design package with 0.45 water/cement ranging from 1000 to 4000 psi, double leaf steel access door, lift drawings - platform 3 and Substation 'C', Substation 'B' lift drawings, Gundle quality control certificate and assurance for HDPE, fire protection sprinkler system/pipe sleeves and flashing sleeve (exterior above grade roof), concrete mix design, boring under tracks, certificate of treatment for cross ties, and rebar mill test reports for slurry wall panels.

Approved-as-Noted 8 Contractor submittals for railroad bridge, vehicular bridge, lift drawing - Platform 3 extension, and sprinkler system/welding procedures.

Reviewed for Record Only 1 Contractor submittal for Gundle certification of person trained to install HDPE.

- (15) For Contract A135BH (Baggage Handling) - Approved 4 Contractor submittals for backwater valve ejector, finish hardware, insulation and rebar material certifications.

Approved-as-Noted 4 Contractor submittals for elevator car 1, 2 and 3; electrical water heater; Verco decking; and HVAC layout.

Rejected 1 Contractor submittal for HVAC layout.

Reviewed for Record Only 1 Contractor submittal for beam form design.

- (16) For Contract A141 - Approved 5 Contractor submittals for rebar drawings, regional steel delivery tickets for rebar, and concrete form tie system package, and record of welding qualification tests.

Approved-as-Noted 8 Contractor submittals for caps on centerline beam, ancillary and roof level, welding procedures for fire sprinkler system and wet standpipe, Paramount Metal drawings, various



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- concrete lift drawings, and cast-in-place concrete lift drawing for mezzanine slab.
Reviewed for Record Only 2 Contractor submittals for Geofon drawing for ground surface settlement points Y-204 and 205, and Union Station access delay cost/schedule proposal.
- (17) For Contract A145 - Approved 5 Contractor submittals for support of 36" storm drain, exterior wall form panels, design calculations, rebar welding procedure, and welder certification.
Approved-as-Noted - 6 Contractor submittals for pile encroachment repairs, calculations and drawings, invert slab bulkhead form and screed details, concrete formwork material certificates and product data, station ground rod substitution and pull irons, sanitary sewer line "C" temporary support calculations and drawings, and interior wall and platform wall and miscellaneous wall forms.
Rejected 2 Contractor submittals for lagging calculations, and Monthly Progress Report.
Reviewed for Record Only 1 Contractor submittal for product data for a liquid boot.
- (18) For Contract A146 - Approved 6 Contractor submittals for compaction grout traffic control plan, concrete curing compound, detail for HDPE penetrations for concrete reinforcing, and ventilation openings for embedded frames.
Approved-as-Noted 3 Contractor submittals for traffic control plan AL Tunnel work areas, suppliers literature on electrical channel, and ventilation holes.
Rejected 1 Contractor submittal for Status Report March Update.
- (19) For Contract A165 - Approved 33 Contractor submittals for Flower St. north bulkhead calculations, conduit piping, various lift drawings, lift drawing for southwest exhaust relief shaft slab, exterior wall lift drawings, rebar shop drawings, dewatering plan, electrical product data, cast flush mounted intruder alarm "J" box, and pulling irons.
Approved-as-Noted 17 Contractor submittals for alternate formwork design, various lift drawings, design calculations for roof slab shoring layout, north bulkhead knockout panels, lift drawing southwest blast relief shaft slab, rebar shop drawings, contingency plan for excavation support system, and excavation support system calculations for 7th Street west bulkhead.
Rejected 7 Contractor submittals for excavation support - 7th St. B and C level bracing, fire protection data, 12" x 12" x 6" grounding box, embedded ceiling light fixture outlet boxes, product data/outlet boxes for telephones, and base slab proposed detail for support pile penetrations.
- (20) For Contract A171 - Approved 5 Contractor submittals for channel mounted conduit clamps, fluorescent lamps for Type X tunnel lighting fixtures, split bolt connections for tunnel lighting system, cathodic protection system terminal board; invert collector test terminal board, and catalog data for permanent electrical material.
Approved-as-Noted 9 Contractor submittals for arch concrete lift drawings, permanent electrical material - concrete anchors, elastomeric pads QC program, sump pump control panel, walkway concrete drawings,



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invert concrete placements, cathodic protection system terminal board, invert collector test terminal board, and wet standpipe welding procedures.

Rejected 5 Contractor submittals for responses to approved as-noted Type X light fixture tunnel, tunnel lighting fixture - Type X, trough-type fixture, and wet standpipe welding procedures.

Reviewed for Record Only 2 Contractor submittals for permanent electrical material, channel clamps, and exit light fixture - Type Y.

- (21) For Contract A175 - Approved 12 Contractor submittals for concrete formwork and calculations, #10 dowels, rebar drawings, non-leaded thread compound material safety data sheets, record of welding qualification tests, manufacturer's literature pipe tape for hydraulic lines, material certificates for fire sprinkler system pipe and fittings, and platform soffit form.

Approved-as-Noted 9 Contractor submittals for calculations for excavation support at A171 interface, concrete formwork, mechanical welding procedures and qualifications/performance qualification test records, precast concrete walkway covers, concrete reinforcement drawings, resteel drawings, and welder procedures qualifications for hydraulic lines.

Rejected 1 Contractor submittal for fire sprinkler/wet standpipe welder qualification records.

- (22) For Contract A610/A115 - Approved 1 Contractor submittal for catalog cuts for cast iron boxes to be used with 2-1/2" water and gas valves.

Approved-as-Noted 2 Contractor submittals for Certificate of Conformance for gravity sewer pipe with Fluid-Tite couplings 12" Class 3300, and test procedures for ultrasonic, dry powder magnetic particle, radiographic and automated ultrasonic testing.

- (23) For Contract A612 - Approved 1 Contractor submittal for a test program plan.

- (24) For Contract A615 - Approved 2 Contractor submittals for a test program plan and preliminary design.

Approved-as-Noted 1 Contractor submittal for the quality assurance program.

- (25) For Contract A616 - Approved 7 Contractor submittals for production fastener test results, and production elastomeric test results.

- (26) For Contract A620 - Approved 11 Contractor submittals for reliability demonstration plan, switch machine layouts, battery data and installation details, power and battery calculations, control panel layout and mechanical drawings, factory acceptance test reports for train stops, vehicle operation design for Walsh/Couple mode, first article configuration inspection, factory acceptance reports for 5E switch machine, factory acceptance reports for FA signals, and factory acceptance test reports for speed frater switch machine.

Approved-as-Noted 12 Contractor submittals for Quality Assurance Program Plan, System Assurance Program Plan, Maintainability Analysis, Reliability Allocation, Maintainability Demo Plan, System Safety Program Plan, Main Line Track Plan, power equipment design and calculations (Yard), Civic Center preliminary

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- design review, 5th/Hill preliminary design review, 7th/Flower preliminary design review, and Wilshire/Alvarado circuit drawings.
- (27) For Contract A630 - Approved 1 Contractor submittal for a manufacturing plan.
Approved-as-Noted 1 Contractor submittal for 480V AC switchgear (partial).
Rejected 2 Contractor submittals for 750 VDC switchgear, and installation data/bus duct layout.
- (28) For Contract A640 - Approved-as-Noted 5 Contractor submittals for PA functional block diagrams, CCTV layouts and schematics, communications details, Halon piping, and preliminary design review data for CCTV.
Reviewed for Record Only 1 Contractor submittal for RTU power requirement.
- (29) For Contract A710 - Approved 2 Contractor submittals for Montgomery elevator brochure, and schedule update.
Approved-as-Noted 3 Contractor submittals for remote control and monitor interface, elevator shop drawings, and elevator equipment rooms plans.
- (30) For Contract A740 - Approved 6 Contractor submittals for fans alarm detectors, test procedure for fan blade reverse bending, test procedure for fan vibration, test procedure for fan run-in, test procedure for fan reversal, and test report UF/OTE impeller.
Approved-as-Noted 1 Contractor submittal for March report and schedule update.
- (31) For Contract A745 - Approved 2 Contractor submittals for test procedure/air handling unit, and damper shop drawing - air handling unit.
Approved-as-Noted 1 Contractor submittal for March 1989 report and schedule.
- (32) For Contract A750 - Approved-as-Noted 1 Contractor submittal for preconstruction details.
- (33) For Contract A795 - Approved-as-Noted 1 Contractor submittal for QA programs/procedures.
Rejected 1 Contractor submittal for UPS shop drawings.

I. Project Controls

- (1) Processed Change Requests: A112-CR-013, A112-CR-014, A112-CR-109, A112-CR-112, A112-CR-117, A112-CR-118, A130-CR-028, A130-CR-029, A135-CR-046, A141-CR-101, A141-CR-108, A141-CR-110, A144-CR-022, A144-CR-023, A144-CR-024, A145/145A-CR-038, A145/145A-CR-077, A145/145A-CR-131, A145/145A-CR-133, A145/145A-CR-135, A145/145A-CR-136, A145/145A-CR-176, A146-CR-031, A146-CR-032, A165-CR-066, A165-CR-067, A165-CR-068, A610/115-CR-043, A610/115-CR-048, A710-CR-003 and A750-CR-004.
- (2) Processed Change Notices: A130-CN-011, A135-CN-020, A135-CN-039, A141-CN-064, A145/145A-CN-038, A165-CN-029, A165-CN-031, A165-CN-032, A175-CN-019, A175-CN-021B and A175-CN-026.



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- (3) Processed Change Orders: A112-CO-004C, A112-CO-005B, A112-CO-009A, A112-CO-011C, A112-CO-035C, A112-CO-041A, A112-CO-045A, A112-CO-046, A112-CO-047, A112-CO-048, A112-CO-050, A112-CO-051, A121-CO-017, A121-CO-018, A121-CO-019, A135-CO-018, A141-CO-010G.1, A141-CO-010N.2, A141-CO-028, A141-CO-037, A141-CO-039, A141-CO-039A, A141-CO-041, A141-CO-042, A141-CO-043, A141-CO-044, A145/145A-CO-053B, A145/145A-CO-064, A145/145A-CO-081, A145/145A-CO-083, A145/145A-CO-084, A145/145A-CO-085, A146-CO-020, A146-CO-021C, A146-CO-021D, A146-CO-021E, A146-CO-022, A146-CO-023, A165-CO-010, A165-CO-019, A165-CO-020, A165-CO-029B, A165-CO-029C, A165-CO-031, A171-CO-014, A171-CO-015A, A175-CO-024C, A175-CO-025A, A175-CO-026, A610/115-CO-014D, A610/115-CO-033, A610/115-CO-034, A610/115-CO-036, A610/115-CO-038, A610/115-CO-039, A610/115-CO-040, A610/115-CO-042, A610/115-CO-043, A616-CO-010, A620-CO-005, A620-CO-008, A620-CO-009, A732-CO-002, A740-CO-005, A745-CO-003, A745-CO-005, A750-CO-002, A750-CO-004, A750-CO-005 and A751-CO-005.
- (4) Processed through TRACS, executed Change Orders: A130-CO-004A, A130-CO-005A, A130-CO-008, A130-CO-009, A130-CO-010, A130-CO-012, A130-CO-013, A135-CO-002P, A135-CO-002R, A135-CO-013, A145-CO-053B, A145-CO-073, A145-CO-074, A165-CO-003, A165-CO-013, A175-CO-025, A610-CO-004A, A610-CO-007A, A610-CO-008A, A610-CO-009A, A610-CO-012A, A610-CO-024A, A610-CO-026, A610-CO-031, A610-CO-032, A610-CO-033 and A610-CO-034.
- (5) Processed Potential Claims: A112-PC-063, A145-PC-087, A165-PC-045, A165-PC-046, A165-PC-048, A165-PC-049, A165-PC-051, A610/115-PC-032 and A610/115-PC-036.
- (6) Processed Change Technical Evaluations: A112-CR-108, A112-CR-111, A130-CR-025, A130-CR-027, A130-CR-029, A135-CR-040, A135-CR-044, A141-CR-101, A141-CR-103, A141-CR-107, A144-CR-021, A145-145A-CR-126, A146-CR-032, A165-CR-036, A165-CR-056, A165-CR-055, A165-CR-059, A165-CR-063, A165-CR-064, A610/115-CR-055, A610/115-CR-056, A610/115-CR-059, A610/115-CR-063, A710-CR-002 and A710-CR-003.
- (7) Processed Force Account Change Packages: A141-CO-010M, A141-CO-017A, A141-CO-025, A146-CO-042 and A165-CO-001.
- (8) Processed Monthly Payment Estimates for 19 Contracts: A112, A121, A130, A135, A141, A144, A145, A146, A165, A171, A175, A610/A115, A616, A620, A640, A710, A732, A740 and A745.
- (9) Completed a Close-out reconciliation on 3 Force Account Change Orders: A165-CO-021, A175-CO-010A and A175-CO-015/015A.
- (10) Continued testing PC TRACS for use on the project.
- (11) Completed input to RTD Project Schedule for Revision 7 and published the schedule revision.
- (12) Reviewed Contractor Monthly Progress Reports.
- (13) Prepared Contractor progress inputs to RTD Monthly Status Report.
- (14) Completed Project Schedule Evaluation Analysis.



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- (15) A112-CR-068 Completed estimate for second floor lighting system conduit change.
- (16) A130-VE-003 Reviewed contractor value engineering proposal and prepared preliminary estimate for temporary decking.
- (17) A130-CR-026 Completed estimate for communications duct bank Metro Red Line, LAFD and Pac Bell.
- (18) A130-CR-029 Completed estimate for substitution of PVC conduit for GRS in communications duct bank and attended negotiations.
- (19) A135-CR-004 Continued material takeoffs, estimates and review of subcontractor proposals for changes at LAUPT Baggage Handling Facility; major items included closure walls, steel windows glass and glazing, and tile work.
- (20) A135-CR-020 Prepared estimate for credit and deletions to work resulting from electrical duct bank concrete obstructions.
- (21) A135-CR-036 Prepared a review of estimate vs. contractor proposal, trackwork relocation change.
- (22) A135-CR-047 Prepared estimate for hydraulic elevator lines.
- (23) A145 Reviewed wage rates, equipment rates and compared special equipment rates for Force Accounts.
- (24) A146 Completed preparations of tunnel equipment rates for Force Accounts. Additional equipment rates were reviewed.
- (25) A165-CR-010 Reviewed Contractor's revised proposals for miscellaneous changes and attended negotiations.
- (26) A165-CR-034 Reviewed estimate for Home Savings underpinning to support Change Order negotiations.
- (27) A165-CR-049 Reviewed estimate for East Bulkhead to support Change Order negotiations.
- (28) A175 Reviewed Contractor's proposals for miscellaneous changes.
- (29) A620-CR-018 Prepared estimate for deletion of ACTV Coaxial Cable.

J. CM Meetings in April 1989

<u>Date</u>	<u>Agency/Company</u>	<u>General Subject</u>
April 3	RTD/QA	Safety Certification File (Content) Discussion
April 3,10,17,24	RTD	CCB Meetings
April 3	RTD	Claims Log
April 4	RTD	A135-CR-004 LAUPT Baggage Handling Closure Walls, RTD's Position
April 4	MRTC	A146/A165 Tunnel Interface with Station Bulkhead



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<u>Date</u>	<u>Agency/Company</u>	<u>General Subject</u>
April 4	CRWQCB	Metro Red Line Discharge
April 4,5	Granite/Board of Public Works Member	A165 Tour
April 4,11,18,25	RTD/MRTC	Project Status Review
April 5	RTD/MRTC/LACoSD/LAPD/BAH/RTD Police	General Project Security, Including Operations
April 5	RTD/TSP/Subcontractor	A135-CR-004 Closure Walls Negotiations
April 5,12,19,26	LADOT	Weekly LADOT MOS-1 Inspection
April 5,19	RTD/MRTC	Project Controls Meeting
April 6	MRTC	A141 Cross Passage Instrumentation
April 6	LADOT	A141 Traffic - Detours Set-up
April 6	ASCE	Metro Red Line Presentation
April 7,14,28	RTD	CM Progress Review
April 7	RTD	Delay Claims
April 7,14,28	RTD/MRTC	Contract Action Plan Meetings
April 10	LACTC	Community Relations Coordination Meeting
April 10	AmFan (A745 Subcontractor)	Audit
April 11	Smith-Emery	Testing and Training (ACI Technician 1)
April 11	DOT Audit Team and S/E	QA/QC Overview
April 12	Michael Malak, Greater Los Angeles Transportation Board	A171/A175 Site Visit/Briefing
April 12,27	Contractors/DIA/RTD/Argonaut/LAFD	Project Safety Review
April 12	LA County	A141 Permit for Geotech Instrumentation
April 12,20	LADOT/GKN Hayward Baker	A130 WTCP Coordination
April 13	CMS Inc. (A740 Subcontractor)	Audit
April 13	RTD	Procedure for As-Built Preparation
April 13	RTD	Computer Acquisition
April 14	Cohu Electronics (A640 Subcontractor)	Audit



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<u>Date</u>	<u>Agency/Company</u>	<u>General Subject</u>
April 17	Famco Inc. (A740 & A745 Subcontractor)	Audit
April 17	Wall St. Journal	Tour of A141 and A165
April 17	RTD	MIS Support to Construction Management
April 17,21,27	RTD/TSP/Electric Sub.	A130-CR-026, CR-029 Communication Duct Bank Changes, Negotiations
April 17,24	RTD, Tutor/Saliba	Preconstruction Meetings for A167 Contract
April 17	FLSC	A171 Fire Protection Piping and Valves
April 18	LADOT, LAPD, LA County Administration	Pedestrian Crossings as A141
April 18	Cal OSHA/RTD/DIA	Return of Cal OSHA Enforcement
April 18	RTD/TSP/Subcontractor	A135-CR-004 Glass, Glazing, Steel Windows, etc., Negotiations
April 19	TS/P, TS/G, Robbins Co.	A130 Tunnel Machine
April 19	Scott Smith/RTD Marketing	Metro Red Line Groundbreaking Monument
April 19	Reliance Electric (A740 & A745 Subcontractor)	Audit
April 20	RTD	A146 tunnel Equipment Rates for Force Accounts
April 20	Bechtel/Acromedia (A640 Subcontractor)	Audit of Acromedia (Bechtel Subcontractor)
April 21	S-E	Soil Testing
April 21	RTD, D. Rose, Artist	Metro red Line Exhibition
April 21	TSD-Public Affairs	Staff Meeting
April 22	San Diego Association	Metro Red Line Briefing/Alignment Tour
April 24	RTD, Tutor-Saliba	A175/A141 Site Visit
April 24	RTD/TSP/Subcontractor	A167, Initial Construction Meeting
April 24	RTD, T-S	A135-CR-004 Ceramic, Quarry & Historic Tile Negotiations
April 25	RTD, DIA	Initial Construction, A167
April 25	Granite	A171 Safety Variance Requests
April 26	BAH/RTD/MRTC	A165 East Bulkhead Design
		Safety Certification



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<u>Date</u>	<u>Agency/Company</u>	<u>General Subject</u>
April 26	RTD/BAH/LAFD/MRTC	Safety Certification Team Meeting
April 26	Master Processing	Witnessed Elastomeric Testing
April 28	RTD/QA	Overview of Submittal Review Process and Status of Audits
April 27	RTD	Benefit Assessment and Community Relations
		Pre-Coordination Meeting for North Hollywood Tenants
April 27	MRTC, Converse Consultants	Geotechnical Design Summary Report
April 27	RTD	Adequacy of Documentation to Support Delay Claims
April 28	RTD/Granite	A165-CR-010 Miscellaneous Changes, Negotiations

SECTION VII

SUMMARY OF ACTIVITIES

PLANNED FOR MAY



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VII. SUMMARY OF ACTIVITIES PLANNED FOR MAY 1989

A. Administration and Accounting

- (1) Continue to provide priority administrative and accounting assistance to construction field operations.
- (2) Continue the recruitment and termination of personnel as required.

B. Quality Assurance

- (1) Continue to conduct fabrication inspections, as required, to support construction and system procurement fabrication activities.
- (2) Finalize and transmit to RTD "As-Built" and "Contract Close-Out" procedures.
- (3) Assist A112 RE/Staff on contract close-out preparation.
- (4) Continue inspector training for ACI Certification - Concrete Technician 1 level.
- (5) Continue to conduct audits of prime and subcontractor activities on systemwide contracts.
- (6) Perform QA audit/surveillance of inspection reports, field review of submittals and field preparation of red-lined drawings.
- (7) Continue to support Safety Certification Review team activities.

C. Equal Opportunity Administration

- (1) Conduct contract compliance site visits, employee interviews and monitor reporting requirements for Contract Nos. A112, A130, A135, A141, A145, A146, A165, A171, A175, A610/A115, A612, A615, A616, A620, A640, A710, A732, A740, A745 and A795.
- (2) Expand SSA&P Report comments section per UMTA request.

D. Contracts and Procurement

- (1) Upon receipt of District approval, issue Amendment to increase AWP-5 funding for Temporary Personnel Services subcontract.
- (2) Upon receipt of District approval, issue purchase orders for rental/purchase of OVA meter.
- (3) After receipt and evaluation of quotations, issue purchase orders for 8 PC's and related software.
- (4) Issue various RFQ's to renew annual agreements covering reproduction, equipment maintenance, etc.



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E. Community Relations

- (1) Continue tenant notifications on traffic access issues for A141, A145, A146, A165 and A175.
- (2) Continue expanded communication activities with A130, A145, A146, A165 and A175 tenants regarding ongoing and pending construction activities. Provide assistance to LAUPT for 50th Anniversary Celebration at Union Station, May 5-7.
- (3) Assist TSD-Public Affairs in planning and executing community outreach to Building Managers in the downtown area, including extending promotional activities for the Project Streetwise Hotline and the Information Centers.
- (4) Continue implementing CR Work Plan; conduct community presentations; the dissemination of construction information; and responding to complaints and inquiries.

F. Safety and Security

- (1) Continue to monitor safety, health and security activities on all active construction sites on a two shift basis.
- (2) Provide specialized underground safety training/indoctrination for PDCD staff, SCRTD, MRTC and visitors.
- (3) Continue to monitor activities of the Security Guard Service and the Site Clean-up Service subcontractors.
- (4) Update the Emergency Response Plan (Revision No. 6).
- (5) Upon receipt, review A167 Safety and Security Plan and proposed Safety Representative.

G. Construction Operations

- (1) Continue construction management (CM) services at Contracts A112, A130, A135, A141, A143, A144, A145/A145A, A146, A165, A167, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745, 4984 (formerly A750), 4986 (formerly A750B) and A795; monitoring of Master Agreement work and submittal reviews.
- (2) Continue coordination with governmental agencies and MOS-1 inspection with LADOT.
- (3) Continue to process submittals and Master Agreement invoices on as-needed basis.
- (4) Continue monitoring of Ballona Creek and Los Angeles River discharges from A141, A144, A145, A146, A165, A171 and A175.
- (5) Continue review of Contractor's monitoring for wastewater discharges at A141, A144, A145, A146, A165, A171 and A175.



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- (6) Prepare March Quarterly Discharge Monitoring Report for the CRWQCB.
- (7) Prepare March LA River Report for the CWBWRD.
- (8) Continue monitoring removal and disposal of contaminated soil at A145.
- (9) Prepare assessment and closure reports for 4 previous underground tank sites at A165.
- (10) Prepare an application package for variance from SCAQMD Rule 1166.
- (11) Prepare Storm Discharge Application packages for 9 temporary and 11 permanent discharge stations for MOS-1 discharges.
- (12) Continue to monitor instrumentation, building and ground settlement marks, various contracts.
- (13) Continue to check Contractor's control points and layout.
- (14) Continue to perform as-built cross section of AR Tunnel invert pour (A171).
- (15) Continue to perform as-built survey of tunnels for Contract A141 and A146.
- (16) Continue location surveys in shop and yard contracts.
- (17) Continue to check slab pours for Contracts A141, A165 and A175.
- (18) Perform high precision control survey through AL and AR Tunnels (A171).
- (19) Continue to perform invert as-built cross section survey of AR Tunnel (A171).
- (20) Continue to check arch form alignment AL Tunnel (A171).

H. Engineering Services

- (1) Continue inspecting instrumentation and analyzing data in Contracts A130, A135, A141, A145, A146, A165 and A175.
- (2) Continue to process Contractor's submittals for Contracts A112, A130, A135, A135BH, A141, A145, A146, A165, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745, A750, and A795.
- (3) Continue production of A161 as-built drawings.
- * (4) Complete constructibility review for Contract A117 Yard Lighting bid documents.
- (5) Continue to track A145 geology and instrumentation data as part of A141 Design Criteria Verification Study Task B.
- (6) Complete tabulation of data from A141 Design Criteria Verification Study Task C.

*See Page 43



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I. Project Controls

- (1) Process Monthly Payment Estimates for all active contracts.
- (2) Process through TRACS all the executed Change Orders.
- (3) Continue close-out audits for Force Account Change Orders.
- (4) Plan for PC TRACS implementation.
- (5) Input Contract A167 into TRACS.
- (6) Review Monthly Contractor Progress Reports.
- (7) Prepare Scheduling inputs to RTD Monthly Status Report.



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DESIGN PACKAGE STATUS WINDOW REPORT - NEXT 30 DAYS 4-29-89 TO 5-26-89

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-117	YARD SITE LIGHTING	DWGS	DC100%		03-31-89	05-05-89			NOT SCHEDULED, IN-HOUSE TARGET DATE.
A-117	YARD SITE LIGHTING	SPEC	DC100%		03-31-89	05-05-89			NOT SCHEDULED, IN-HOUSE TARGET DATE.

2 records listed. 2 values listed.

Review Codes : LT60 - Less than 60% IP60 - In progress 60% PF85 - Prefinal 85%
PF90 - Prefinal 90% FS100 - Final submittal 100% DC100 - Final design complete 100%
CAR- Claims Avoidance Review CE - Check Estimate

NOTE : Based on 05-01-89, MRTC Design Review Schedule

SECTION VIII

SUBCONTRACTOR/CONSULTANT

STATUS



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CONTRACT PERFORMANCE REPORT

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VIII. SUBCONTRACTOR/CONSULTANT STATUS

The following 5th AWP Subcontract Status Report provides a current status of subcontracts awarded to the twelve associate and four consultant subcontractors. The Report shows major milestones for each subcontractor action from receipt of the requisition, execution of the document and includes an abbreviated description of the subcontract amendment issued.

FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT

APRIL 28, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI- SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
1-SC-3369-1	BETTER PERSONNEL EMPLOYMENT SERVICES											
	AMEND. NO. 11	08/03/88	04/08/88	06/08/88	07/25/88	06/13/88	06/13/88	06/14/88	08/11/88	\$420,632	08/11/88	FIFTH AMP
	CHANGE ORDER NO. 4	N/A	N/A	N/A	N/A	11/04/88	11/08/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
2-SC-3369-1	CONSTRUCTION CONTROL SERVICES CORP.											
	AMEND. NO. 11	08/03/88	04/08/88	06/08/88	07/25/88	06/17/87	06/20/88	06/27/88	08/15/88	\$1,482,039	08/31/88	FIFTH AMP
	CHANGE ORDER NO. 3	N/A	N/A	N/A	N/A	11/04/88	11/28/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
3-SC-3369-1	DAMES & MOORE											
	AMEND. NO. 10	08/03/88	04/08/88	06/08/88	07/25/88	06/27/88	06/28/88	06/30/88	08/15/88	\$234,577	08/16/88	FIFTH AMP
	CHANGE ORDER NO. 3	N/A	N/A	N/A	N/A	11/04/88	11/15/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
4-SC-3369-1	ENGINEERING-SCIENCE											
	AMEND. NO. 10	08/03/88	04/08/88	06/20/88	07/25/88	07/06/88	07/15/88	07/18/88	08/12/88	\$228,002	08/15/88	FIFTH AMP
	CHANGE ORDER NO. 3	N/A	N/A	N/A	N/A	11/04/88	12/07/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
	AMEND. NO. 11	12/30/88	N/A	N/A	*	01/16/89	01/25/89	01/27/89	04/25/89	\$477,824	04/25/89	INCREASES FUNDS
5-SC-3369-1	HAYAKAWA ASSOCIATES											
	AMEND. NO. 10	08/03/88	04/08/88	07/15/88	07/25/88	08/02/88	08/19/88	08/24/88	09/16/88	\$133,484	09/16/88	FIFTH AMP (TERMINATED)
6-SC-3369-1	JACOBS ASSOCIATES											
	AMEND. NO. 13	08/03/88	04/08/88	06/09/88	07/25/88	06/22/87	06/28/88	06/30/88	08/15/88	\$996,419	08/16/88	FIFTH AMP
	CHANGE ORDER NO. 4	N/A	N/A	N/A	N/A	11/04/88	12/06/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE

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FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Contd)

APRIL 28, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI- SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
7-SC-3369-1	JENKINS, GALES & MARTINEZ, INC.											
	AMEND. NO. 13	08/03/88	04/08/88	06/08/88	07/25/88	07/18/88	07/29/88	07/29/88	08/23/88	\$138,465	08/23/88	FIFTH AMP
	CHANGE ORDER NO. 3	N/A	N/A	N/A	N/A	11/04/88	11/15/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
8-SC-3369-1	MARTIN & HUANG INTERNATIONAL											
	AMEND. NO. 11	08/03/88	04/08/88	06/08/88	07/25/88	07/13/88	07/18/88	07/25/88	08/18/88	\$486,299	08/18/88	FIFTH AMP
	CHANGE ORDER NO. 4	N/A	N/A	N/A	N/A	10/06/88	10/17/88	N/A	N/A	N/C	10/06/88	REVISED IPR
	CHANGE ORDER NO. 5	N/A	N/A	N/A	N/A	10/31/88	11/02/88	N/A	N/A	N/C	10/31/88	ADMINISTRATIVE
9-SC-3369-1	NORTH PACIFIC CONSTRUCTION MANAGEMENT											
	AMEND. NO. 13	08/03/88	04/08/88	06/29/88	07/25/88	07/18/88	07/29/88	08/03/88	08/23/88	\$435,803	08/23/88	FIFTH AMP
	CHANGE ORDER NO. 5	N/A	N/A	N/A	N/A	11/04/88	11/15/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
10-SC-3369-1	OCMOA & SILLAS											
	AMEND. NO. 7	08/03/88	04/08/88	05/14/88	N/A	07/19/88	07/21/88	07/25/88	08/15/88	\$79,500	08/15/88	FIFTH AMP
11-SC-3369-1	RANDOLPH & TATE ASSOCIATES											
	AMEND. NO. 7	08/03/88	04/08/88	04/10/88	N/A	07/20/88	08/08/88	08/08/88	08/18/88	\$10,000	08/18/88	FIFTH AMP
15-SC-3369-1	MUESER RUTLEDGE CONSULTING ENGINEERS (JAMES GOULD, PH.D)											
	AMEND. NO. 6	09/23/88	N/A	06/15/88	N/A	06/21/88	06/21/88	06/23/88	08/12/88	\$20,000	08/12/88	FIFTH AMP
18-SC-3369-1	GEO GRAY/ PHOTOGRAPHY											
	AMEND. NO. 3	06/13/88	N/A	N/A	N/A	08/18/88	08/19/88	07/01/88	08/18/88	\$42,300	08/22/88	FIFTH AMP
19-SC-3369-1	WORK CENTER, INC.											
	AMEND. NO. 5	05/25/88	N/A	N/A	N/A	08/12/88	08/26/88	06/27/88	08/11/88	\$60,000	08/26/88	FIFTH AMP

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FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Contd)

APRIL 28, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI- SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
21-SC-3369-1	SMITH EMERY CO.											
	AMEND. NO. 3	06/13/88	N/A	N/A	07/25/88	08/23/88	08/29/88	06/15/88	08/29/88	\$395,000	08/31/88	FIFTH AMP
	CHANGE ORDER NO. 4	N/A	N/A	N/A	N/A	12/30/88		N/A	N/A	N/C	12/30/88	ADDS ITEMS
	AMEND. NO. 4	04/15/89	N/A	N/A	* *	04/05/89	04/05/89	02/15/89	04/03/89	\$595,000	04/05/89	INCREASES FUNDS
22-SC-3369-1	COLEMAN SECURITY SERVICES INC.											
	AMEND. NO. 3	06/13/88	N/A	N/A	N/A	08/15/88	08/17/88	06/15/88	08/15/88	\$93,000	08/18/88	FIFTH AMP
29-SC-3369-1	SUBWAY TERMINAL BLDG (A145/146 SITE OFFICE LEASE)	N/A	N/A	N/A	N/A	N/A	N/A	06/01/88	06/02/88	\$56,910	N/A	EXER 1YR OPT
33-SC-3369-1	F.E. ENDACOTT (CONSULTING AGREEMENT)	05/16/88	N/A	N/A	N/A	06/16/88	07/05/88	07/06/88	08/16/88	\$61,000	08/16/88	FIFTH AMP
34-SC-3369-1	BASMACHIYON-DARNELL INC. (COMPLETED)											
35-SC-3369-1	MARY & SON MAINTENANCE (SITE CLEAN-UP)	06/27/88	06/27/88	07/21/88	07/25/88	08/10/88	08/11/88	07/13/88	08/12/88	\$60,000	08/15/88	FIFTH AMP
36-SC-3369-1	STARLITE SAFETY SUPPLIES (COMPLETED)											
37-SC-3369-1	KAL KRISHNAM	08/25/88	09/12/88	10/19/88	N/A	12/15/88	12/19/88	11/04/88	12/12/88	\$98,000	12/20/88	NEW ASSOCIATE
	AMEND. NO. 1	N/A	N/A	02/17/89	N/A	02/23/89		N/A	N/A	\$94,130		RATE ADDITIONS
38-SC-3369-1	EDWARD D. GRAF (CONSULTING AGREEMENT)	08/10/88	N/A	N/A	N/A	08/12/88	08/16/88	08/10/88	09/07/88	\$50,000	09/07/88	
39-SC-3369-1	O'LEON CONSULTING ENGINEERS CO.	08/25/88	09/12/88	10/18/88	N/A	12/15/88	12/29/88	11/04/88	12/12/88	\$99,075	12/30/88	NEW ASSOCIATE
40-SC-3369-1	TRANSMETRICS	08/25/88	09/12/88	10/19/88	N/A	12/15/88	12/29/88	11/04/88	12/12/88	\$55,350	12/29/88	NEW ASSOCIATE
**IN PROCESS	CHANGE ORDER NO. 1	N/A	N/A	N/A	N/A	01/26/89	02/01/89	N/A	N/A	N/C	01/26/89	ADMINISTRATIVE

SECTION IX

CONSTRUCTION PROGRESS
PHOTOS



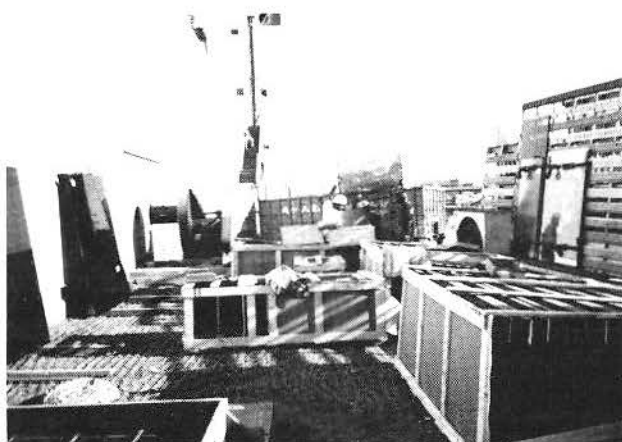
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD APRIL 1989

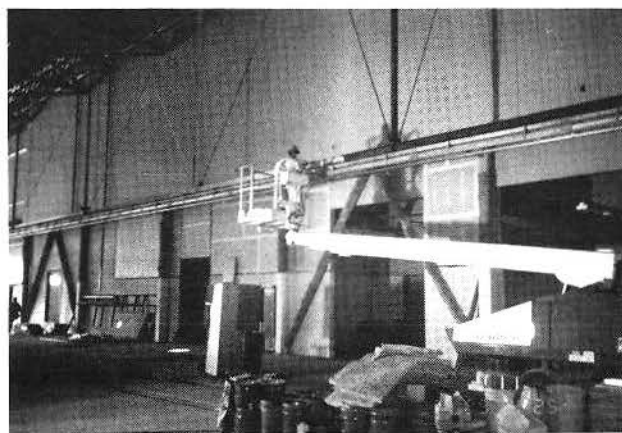
MAIN SHOP BUILDING CONTRACT A112



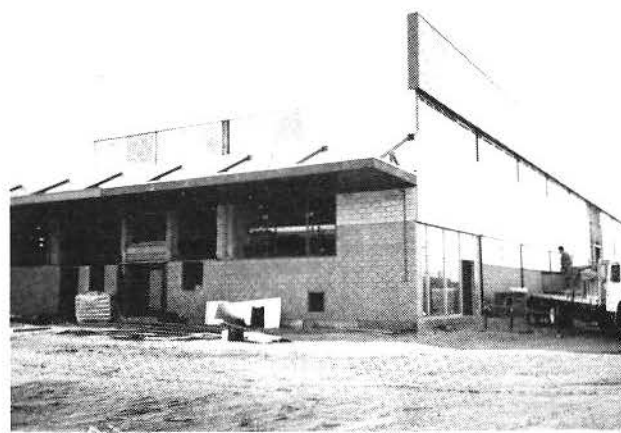
CONTROL TOWER, BLOWDOWN FACILITY.
SCRUBBER AND TOWER GLASS DELIVERY



WHEEL PRESS MACHINE PIT BOTTOM SLAB AND
WALL FORMS



PAINTING STINGER SUPPORT BEAM. NOTE INTERIOR
SIDING PANEL LINERS HAVE BEEN INSTALLED



NORTHWEST CORNER OF BUILDING. FIRST FLOOR FRONT
AND SECOND FLOOR WINDOWS ARE INSTALLED



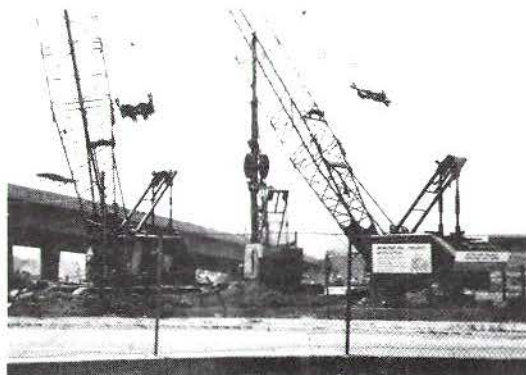
LOS ANGELES METRO RED LINE

PDCD

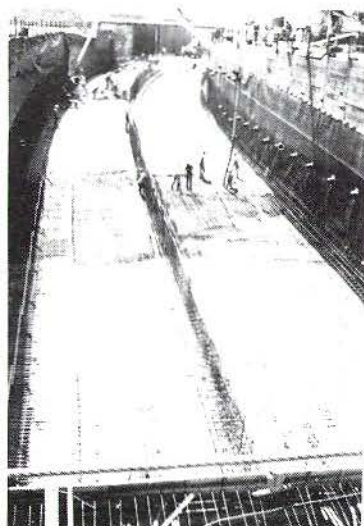
CONTRACT PERFORMANCE REPORT

PERIOD APRIL 1989

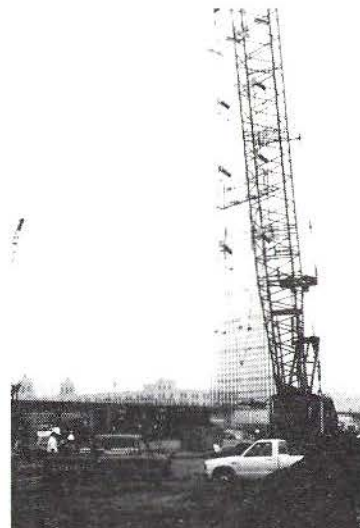
YARD LEADS & TRANSFER ZONE CONTRACT A130



EXCAVATORS WORKING ON SLURRY WALL



PLACING CONCRETE -
BOX STRUCTURE BASE SLAB



REINFORCEMENT STEEL FOR SLURRY WALL



NORTH END OF A130 - SOUTH END OF A135

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

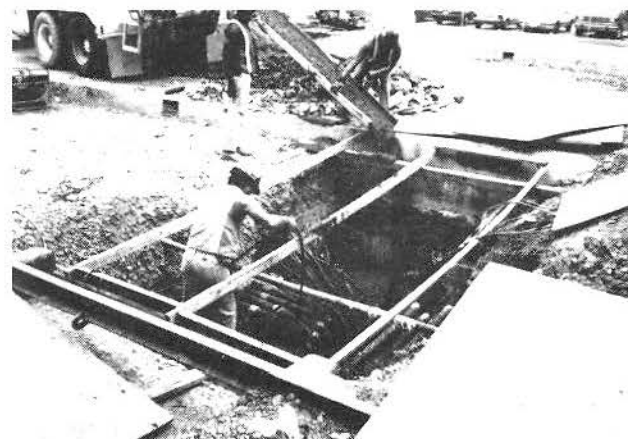
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PERIOD APRIL 1989

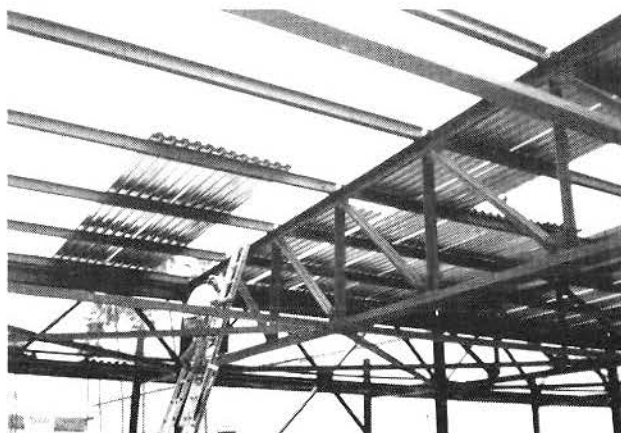
UNION STATION CONTRACT A135



DEMOLITION OF EXISTING LAUPT UTILITY TUNNEL
AND PASSENGER TUNNEL RAMP



PLACING CONCRETE FOR DUCTBANK OF
PLATFORM #2 TIE IN WITH EXISTING 480 VOLT DUCTS



STRUCTURAL STEEL ERECTION AND PLACEMENT OF
SUBROOF FOR THE BAGGAGE HANDLING FACILITY



CONSTRUCTION OF FORMS FOR
PLATFORM #3 EXTENSION

Parsons-Dillingham-De Leuw, Cather



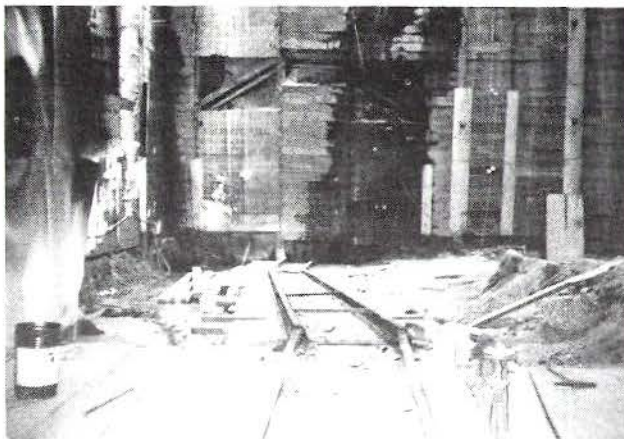
LOS ANGELES METRO RED LINE

PDCD

CONTRACT PERFORMANCE REPORT

PERIOD APRIL 1989

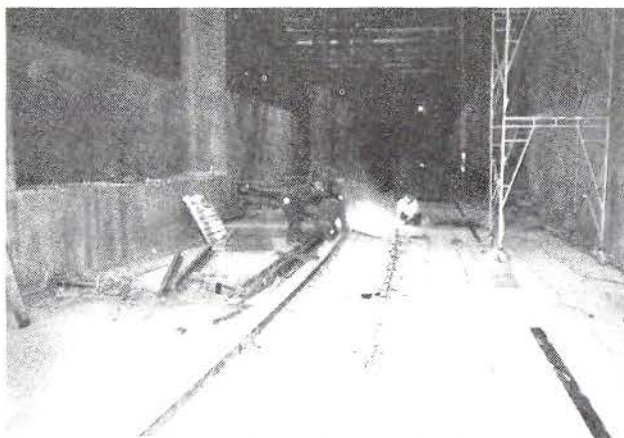
CIVIC CENTER STATION AND TUNNEL CONTRACT A141



PREPARING NORTH STATION WALL FOR
TUNNEL MACHINE BREAKOUT



REMOVING SUPPORTS AFTER POURING OF ROOF
SLAB IN THE NORTH BLAST RELIEF SHAFT



INSTALLING RAIL FOR MOVING TUNNEL EXCAVATING
MACHINE THRU CIVIC CENTER STATION

Parsons-Dillingham-De Leuw, Cather



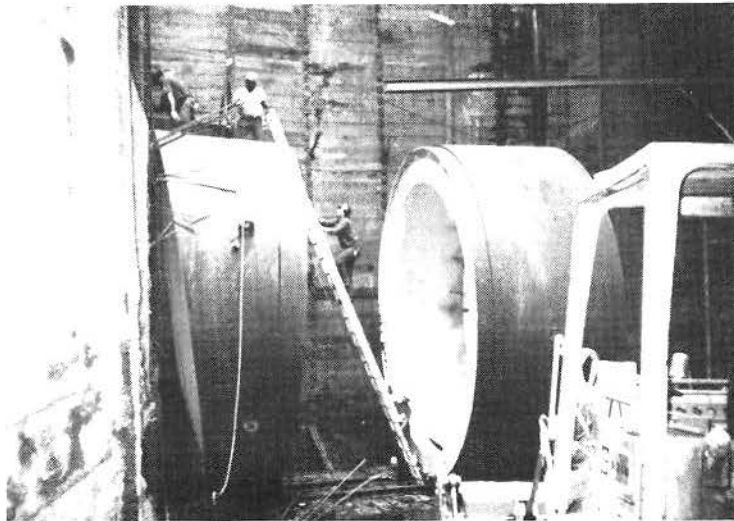
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

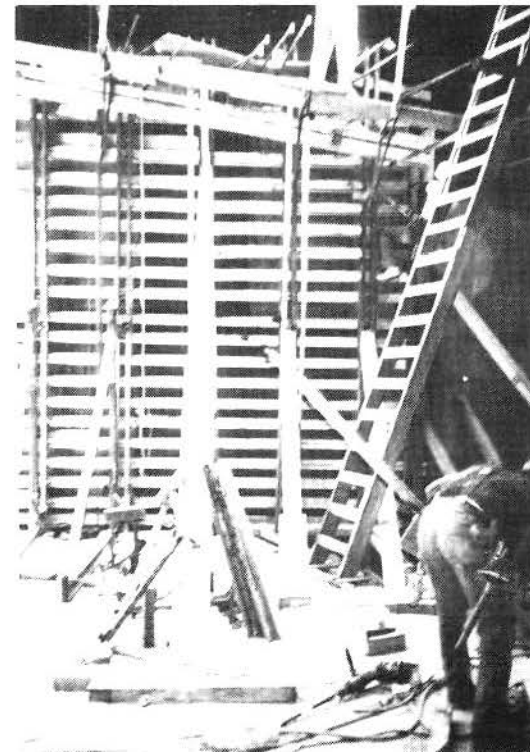
PDCD

PERIOD APRIL 1989

CIVIC CENTER STATION AND TUNNEL CONTRACT A141 (Contd)



INSTALLING ADDITIONAL TUNNEL SHIELD FOR THE AR TUNNEL
AT THE SOUTH END OF CIVIC CENTER STATION



INSTALLING FORMS FOR A CONCRETE WALL
IN THE SOUTH BLAST RELIEF SHAFT



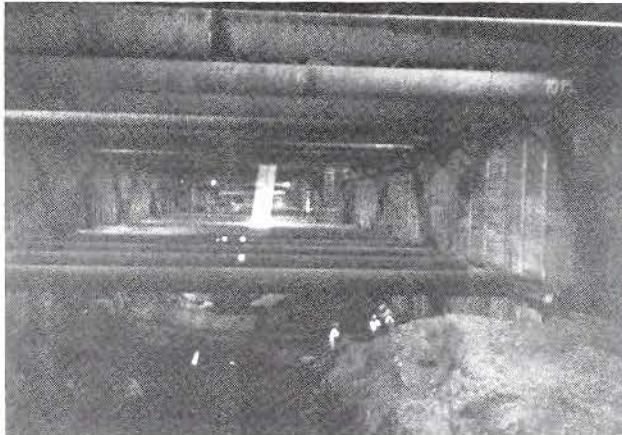
LOS ANGELES METRO RED LINE

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CONTRACT PERFORMANCE REPORT

PERIOD APRIL 1989

5TH/HILL UTILITY RELOCATION AND 5TH/HILL STATION STAGE I CONTRACT A145/A145A



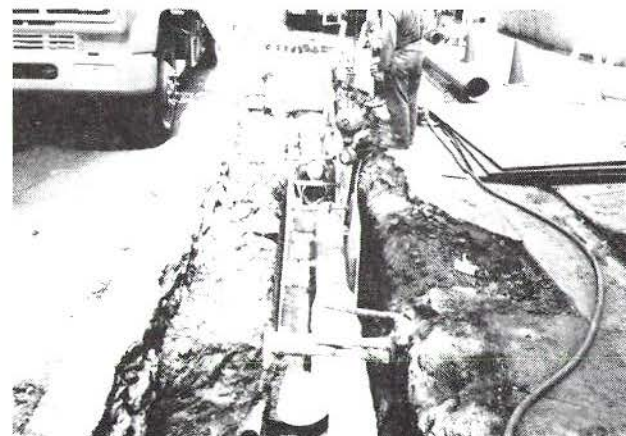
GENERAL VIEW OF THE STATION'S
SOUTH END EXCAVATION



WELDING INSPECTION ON KNEE STRUTS
AT THE STATION'S SOUTHEAST CORNER



PHASE II PILE DRILLING OPERATIONS IN YARD I,
THE STATION'S SOUTH ENTRANCE



DWP-WS RELOCATING THE 12-INCH DIAMETER
WATER MAIN IN 4TH STREET (EAST OF HILL ST.)
TO AVOID INTERFERENCE W/ SSMH C-5

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD APRIL 1989

TUNNELS FROM 5TH/HILL TO 7TH/FLOWER CONTRACT A146



OPERATOR AT TUNNELING MACHINE CONTROLS



WORKMEN USING HYDRAULIC ERECTOR TO
INSTALL PRECAST CONCRETE TUNNEL SEGMENTS



COMPACTION GROUTING OPERATIONS ON 7TH STREET.
DRILL IS BEING USED TO REAM OUT GROUT HOLES, TRUCK
IS THE PORTABLE BATCH PLANT FOR COMPACTION GROUT

Parsons-Dillingham-De Leuw, Cather



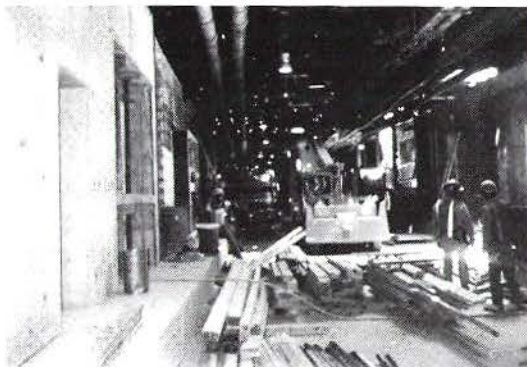
LOS ANGELES METRO RED LINE

PDCD

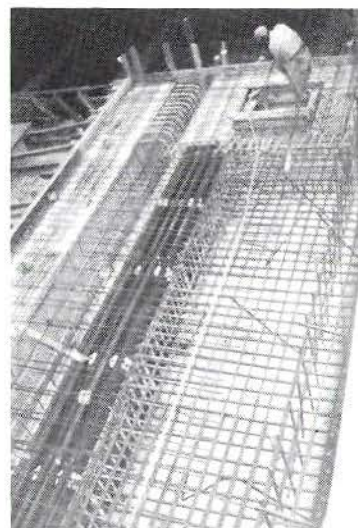
CONTRACT PERFORMANCE REPORT

PERIOD APRIL 1989

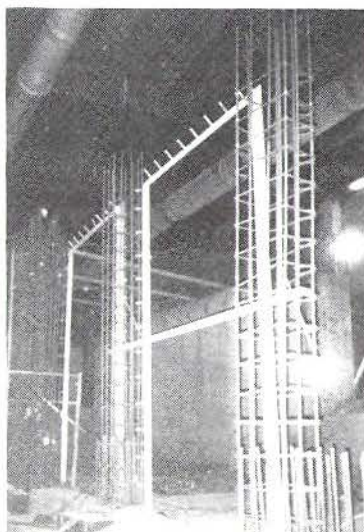
7TH/FLOWER STATION CONTRACT A165



LRT INTERIOR WALLS



LRT EAST PLATFORM



LRT DAMPER OPENINGS



LRT INTERIOR WALLS

Parsons-Dillingham-De Leuw, Cather



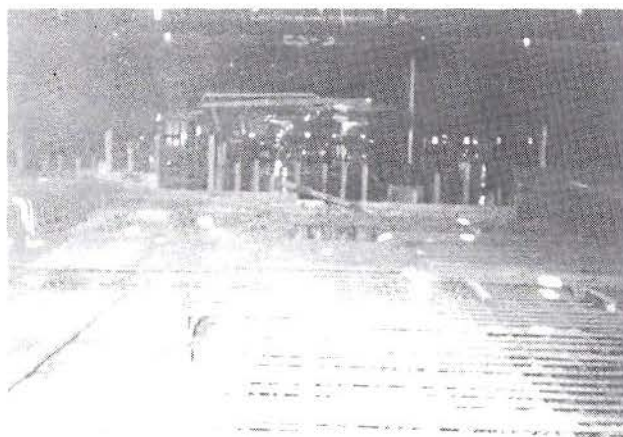
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

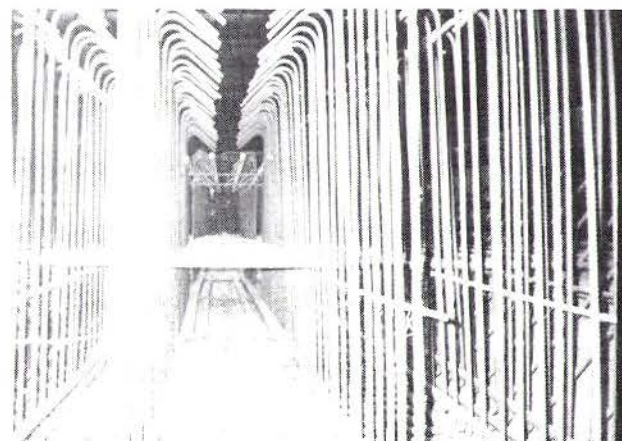
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PERIOD APRIL 1989

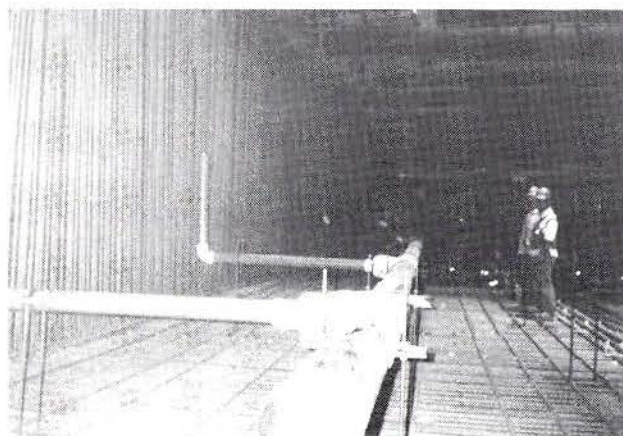
7TH/FLOWER STATION CONTRACT A165 (Contd)



METRO RED LINE BASE SLAB -
EAST OF FLOWER STREET



METRO RED LINE BASE SLAB CENTER BEAM -
EAST OF FLOWER STREET



METRO RED LINE BASE SLAB BOTTOM MAT REBAR -
EAST OF FLOWER STREET



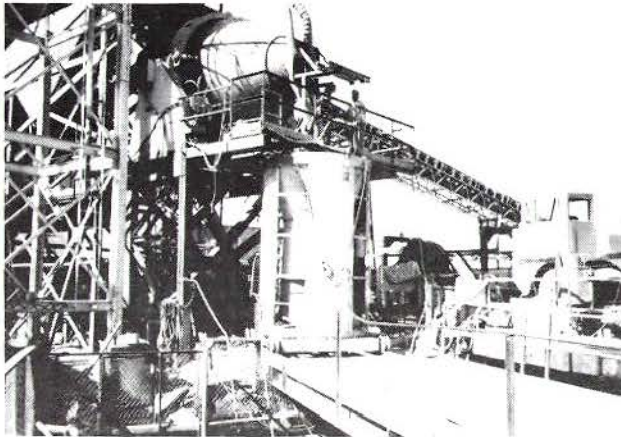
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

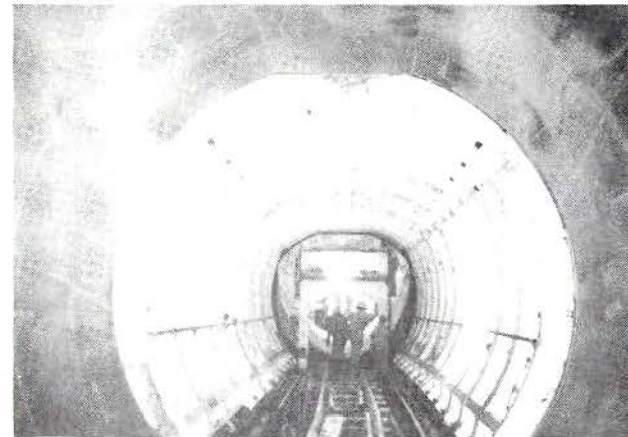
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PERIOD APRIL 1989

LINE SECTION - 7TH/FLOWER TO WILSHIRE/ALVARADO CONTRACT A171



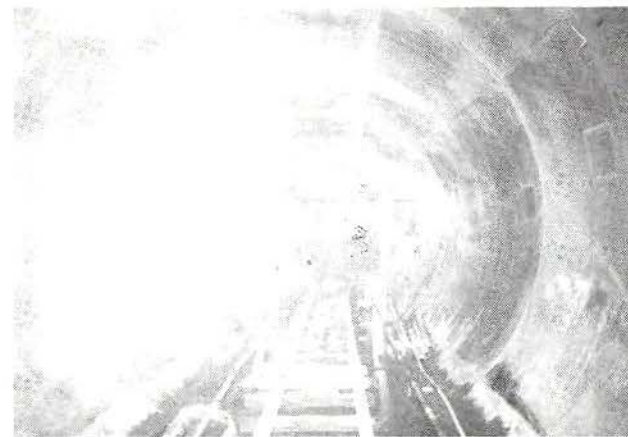
CONCRETE BATCH PLANT AND CONCRETE BUCKET IN
USE FOR AL ARCH CONCRETE PLACEMENTS



AL TUNNEL ARCH FORMS AND FORM CARRIER
MOVING FORM SECTION ON 1ST ARCH PLACEMENT



ARCH FORMS IN PLACE AL TUNNEL



FINISHED ARCH CONCRETE IN AL TUNNEL. HIGH CAR
IN USE FOR CURING AND REPAIR OF CONCRETE

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

PDCD

CONTRACT PERFORMANCE REPORT

PERIOD APRIL 1989

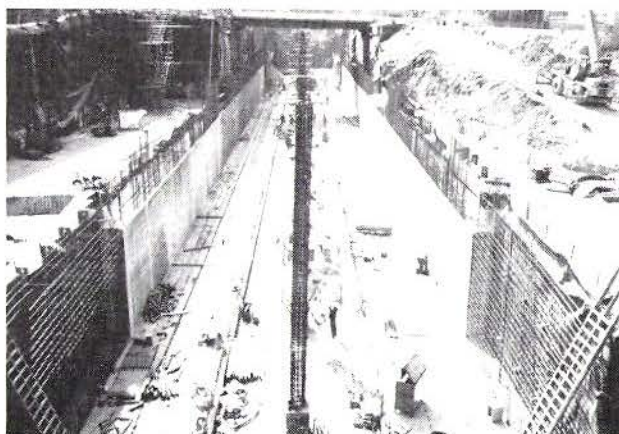
WILSHIRE/ALVARADO STATION - STAGE I CONTRACT A175



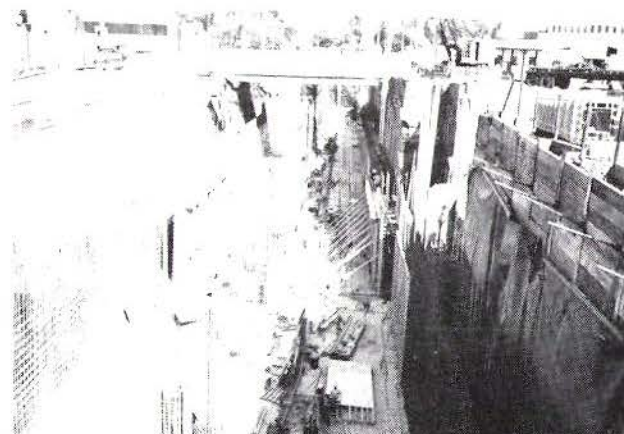
OVERHEAD VIEW OF STATION CONSTRUCTION PROGRESS.
WESTLAKE AVE WESTWARD



OVERHEAD VIEW OF STATION CONSTRUCTION PROGRESS
AT EAST END OF STATION A171/A175 INTERFACE



END VIEW OF STATION CONSTRUCTION FROM WEST END OF
STATION (ALVARADO ST.) FACING EAST - INCLUDES COMPLETION OF
WALLS, BASE SLABS, COLUMN PEDESTALS AND RESTEEL



END VIEW OF STATION CONSTRUCTION FROM EAST END
OF STATION FACING WEST. INCLUDES INSTALLATION
OF RESTEEL AND FORMS FOR WALL PLACEMENTS

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

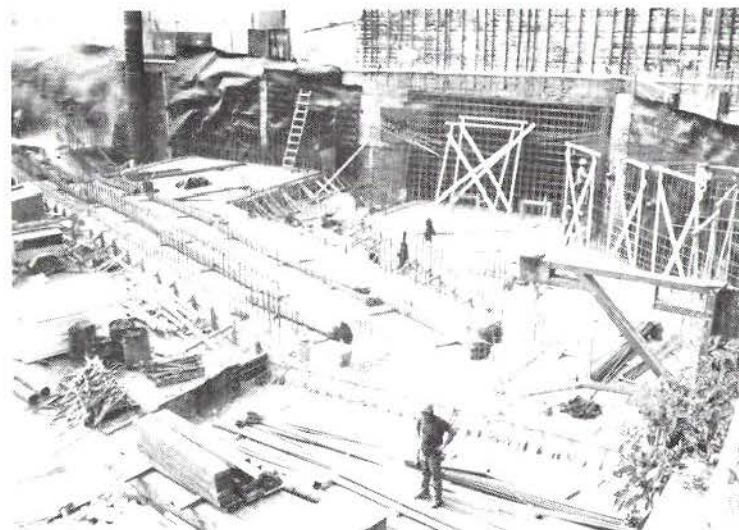
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PERIOD APRIL 1989

WILSHIRE/ALVARADO STATION - STAGE I CONTRACT A175 (Contd)



TELEPHONE DUCTBANK SUPPORT IS SHOWN ABOVE THE CURRENT EXCAVATION AND EXCAVATION SUPPORT BEING PERFORMED AT THE A171/A175 INTERFACE



COMPLETED BASE SLABS FOR THE SOUTH INTAKE AND EXHAUST SHAFTS. RESTEEL IS BEING PREPARED FOR INSTALLATION FOR ADDITIONAL PLACEMENTS

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

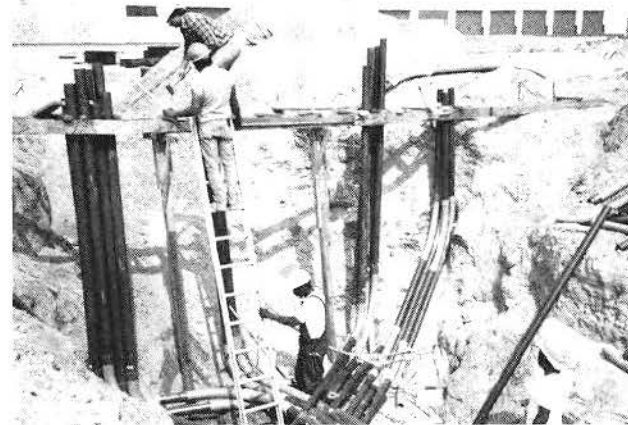
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PERIOD APRIL 1989

TRACKWORK INSTALLATION /YARD STORAGE AREA CONTRACT A610/A115



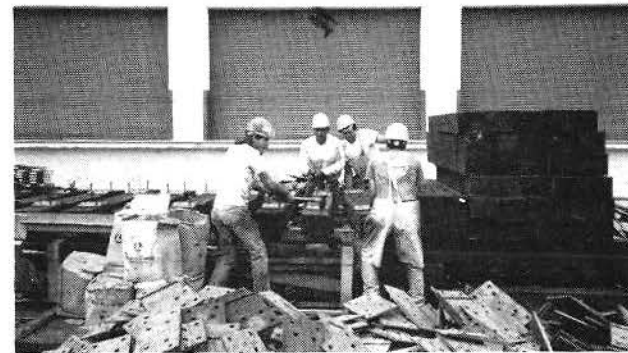
INSTALLATION OF NEGATIVE RETURN DUCT BANKS,
NORTH OF THE MAIN SHOP BLDG.



INSTALLATION OF TRACTION POWER DUCT BANKS
FOR OPERATING PLATFORM #1



TRACTION POWER STUBUPS, EAST OF MOW BLDG.



PREPLATING CROSS TIES, EAST OF MOW BLDG.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD APRIL 1989

HANDLING OF HAZARDOUS MATERIALS CONTRACT A750



ASBESTOS ABATEMENT IN MANHOLE 10E



LOADING OF HYDROCARBON CONTAMINATED
SOIL TEMPORARILY STOCK PILED AT A144 SITE
FOR HAULING TO PECK ROAD DISPOSAL FACILITY

Parsons-Dillingham-De Leuw, Cather